

Year 3

Answers



Term 1

Units 1 – 10

English

ANSWERS

Term 1

YEAR 3

UNIT 1

SET 1

1. a 2. b

Movie World

1. b 2. b

SET 2

1. d 2. b 3. c 4. a
5. c 6. b 7. c 8. d

SET 3

1. c 2. c 3. d 4. d
5. a 6. d

SET 4

Alice Anderson had no friends at all. Even Georgina Grayson, who was the nicest girl in the whole school, refused to talk to Alice. You see, Alice Anderson never told the truth about anything. When she first started school she told everyone that her mother was a secret agent and her father was an astronaut. It didn't take long for everyone to discover that Alice was making the whole thing up.

GRAMMAR

ACTIVITY 1

1. Do the **girls** have enough potatoes?
2. The **mountain** is covered in snow.
3. Take this ball to those **boys** over there.
4. The yellow **bird** is sitting on its eggs.
5. The **leopard** changed his spots.
6. The **computers** are not working.

ACTIVITY TWO

1. kittens/cats
2. ice-cream, ice-block, chocolate, etc
3. questions
4. bell/telephone
5. lollies, marbles, apples, books, etc

VOCABULARY

1. allowed/aloud

2. berry/bury
3. been/bean
4. fined/find

UNIT 2

SET 1

1. b 2. a

Insects

1. c

SET 2

1. b 2. c 3. d 4. d
5. d 6. c 7. b

SET 3

1. David bookcase full of prizes to prove he was a good model maker.
2. David's Disneyland model was different because it was the actual size of the real Disneyland.
3. David did not want to win a silver trophy because he would rather win a ride in the real space shuttle because it would be more exciting.
4. David was making a model motorbike out of connect-a-stix when his mother came into the room.
5. David hated instructions.
6. The main idea of this extract is that David, who is extremely good at building models, is going to enter a model making competition.

SET 4

Mr Scarsdale was looking over our heads. 'Well?' he said.

Ram glanced back and kicked my chair. 'This is it,' he hissed.

Pete was standing at the open classroom door, shuffling as if his legs wanted to run off somewhere, with his eyes looking around for a place to run to.

'I'm late,' Pete mumbled.

Ram nodded and pulled four chocolate bars from his pocket. The bet was on.

GRAMMAR**EXERCISE 1**

1. teeth
2. men
3. mice
4. children
5. geese
6. women
7. cars
8. crosses
9. shoes
10. sheep
11. deer
12. fish

EXERCISE 2

1. Five **women** ate their apples under the tree.
2. The **child** was crying for his mother.
3. Those **sheep** are wandering away from the shepherd.
4. My wobbly **tooth** is hurting me.
5. Don't be afraid. Those **geese** won't hurt you.

VOCABULARY

Teacher.

UNIT 3**SET 1**

1. b 2. c 3. b 4. a
5. c 6. b 7. a

SET 2

1. c 2. b 3. d 4. d
5. d 6. c 7. d 8. Teacher

SET 3

1. swimming 2. bruise 3. easily
4. scales 5. reefs 6. ragged
7. substitute 8. slippery 9. under

SET 4**Peg Leg Meg Nan Bodsworth**

In the tower room of the great island fortress, Maude the Marauder watched the pirate ships come in.

“Fred!” she yelled to her grandson. “FRED! Get up here and help me down the stairs. And find me sword and sea boots. We gotta get down to the wharf quick. Before Meg does. Don't want that blabber-gob telling no tales about us, do we?”

But Meg was already on the wharf when her father, Black Jack, came springing up the ladder from the Saucy Sally's dinghy.

“I've got a present for you, Meg,” he said, and whipped the black cloth off a cage with a parrot in it.

“Souse me sea socks for supper time,” said the parrot. “Land ahoy and about time too.”

“Oh!” said Meg, entranced. “Where did you get it?”

“Off a ship that we sank,” said Black Jack. He opened the door of the cage, and the parrot fluttered straight up onto Meg's shoulder and nibbled at a strand of her curly red hair.

“Why don't he give me a present?” whined Fred, staring at Poll.

“It makes me grind me teeth,” said Maude the Marauder gruffly. “Baff-boozle me, Fred, but ever since Meg got her peg leg, he don't seem to trust you. Ever since you pushed 'er into Crocodile Creek.”

Maude the Marauder smiled her blood-curdling smile.

“I don't think Black Jack believed us, Fred, when we said you were with me all that day. You weren't anywhere near Crocodile Creek, were you? Not our fault if Meg tells whopping lies!”

And she cackled.

GRAMMAR**EXERCISE 1**

1. Wolves
2. Scarves
3. Thieves
4. Leaves
5. Wives

- 6. Halves
- 7. Elves
- 8. Elves
- 9. half
- 10. leaves
- 11. scarf

EXERCISE 2

- 1. cuffs
- 2. cliffs
- 3. puffs
- 4. earmuffs
- 5. scruffs
- 6. show-offs

VOCABULARY

- 1. c 2. b 3. a 4. c

UNIT 4

SET 1 – “Dad”

Teacher

Wasps

- 1. a) solitary wasps, b) social wasps
- 2. Social wasps build nests
- 3. Up to several thousand

SET 2

- 1. c 2. b 3. b 4. a
- 5. b 6. b 7. a

SET 3

- 1. d 2. b 3. c 4. a
- 5. c 6. b

SET 4

I have visited Sydney, Brisbane, Alice Springs, Canberra, Victoria and Adelaide. My mum says that I am lucky to have seen so many places. I don't think that I am so lucky. My best friends Kelly, Amanda and Vicki have been all over the world. Kelly has been to New Zealand, Thailand and Singapore. Vicki

has been to Italy, Spain and Portugal. When Amanda was in America she visited Disneyland, New York and Chicago.

GRAMMAR

EXERCISE 1

Teacher

EXERCISE 2

- 1. September 2. Kevin Rudd
- 3. Canberra 4. The Lion King
- 5. Elizabeth

VOCABULARY

- 1. difficult

w	t	r	u	d	e	e	r
d	h	g	o	h	y	a	i
r	f	l	o	u	d	k	g
y	d	y	r	m	r	i	h
e	t	r	i	c	k	y	t
j	m	b	r	a	v	e	a
k	i	l	h	l	o	l	a
l	f	o	v	e	r	p	s

- 2. icy
- 3. troubled
- 4. hazardous
- 5. amusing

UNIT 5

SET 1

- 1. c 2. a 3. 3,5,1,4,2

SET 2

- 1. c 2. c 3. b 4. d
- 5. c 6. b

SET 3

1. c 2. a 3. d 4. b
5. c 6. d

SET 4**Mother's Day**

Ro met Molly at the station and seemed happy and excited. Molly expected them to go to the shop first, but her mother said she had the rest of the day off.

"I've got something to show you."

"What?"

"It's your Christmas present really. "

"So do I get it now?"

"Well, I won't see you on Christmas Day, will I?"

Molly thought about it - Christmas Day had always been a big day in the house by the lake, especially since Locky was old enough to understand about Santa and presents, but lately things had changed and she wasn't sure she wanted to be there this year

"I could come up on the train maybe."

"Let's think about that later. You're going to have to see your present now anyway."

GRAMMARExercise 1

1. school 2. gaggle
3. platoon 4. bunch
5. fleet

Exercise 2

Teacher

VOCABULARY

1. dry 2. rude 3. right
4. over 5. loud 6. brave
7. tricky

UNIT 6**SET 1**

1. Pour yogurt into paper cups. Fill them almost to the top.
2. Stretch a small piece of plastic wrap across the top of each cup.
3. Using the popsicle stick, poke a hole in the plastic wrap. Stand the stick straight up in the center of the cup.
4. Put the cups in the freezer until the yogurt is frozen solid.
5. Remove the plastic wrap, peel away the paper cup, and eat your pop!

SET 2

1. eggs
2. maggots
3. stinking
4. perched
5. mistake
6. starvation
7. flies
8. fish
9. important
10. bloom
11. life

SET 3

1. rarely
2. Because he had learned how generous and kind Tortoise was.
3. Greedy, cunning, nasty, unkind, etc
4. To stuff one's face with food
5. Frog
6. Teacher

SET 4

1. "Can I please stay up late tonight?" asked John.
2. Michael, Jenny, Wesley and Vern went to the movies on Friday night.
3. Do you like to eat raspberries?

4. "Stop teasing me," cried Dana. OR "Stop teasing me!" cried Dana.

GRAMMAR

Exercise 1

Collective	Singular	Plural	Proper
class	bag	scarves	Sydney
choir	egg	movies	Maria
orchestra	whale	mice	Canada
	pencil		England

EXERCISE 2

Teacher

VOCABULARY

1. available
2. sequence
3. attract
4. generous
5. advice

UNIT 7

SET 1

Exercise 1

1. d
2. a
3. b
4. c

Exercise 2

Teacher

SET 2

1. b
2. c
3. b
4. c
5. d
6. b
7. a
8. d

SET 3

1. b
2. c
3. d
4. d
5. a
6. b

GRAMMAR

Exercise 1

- a) yes
- b) no
- c) no
- d) yes
- e) no

Exercise 2

1.
 - a) This pineapple
 - b) My old bike
 - c) Her hair
 - d) My parrot
2.
 - a) can, draw
 - b) plays
 - c) hear , is
 - d) gallops

3. Teacher

PUNCTUATION

It was lovely summer weather in the country, and the golden corn, the green oats, and the haystacks piled up in the meadows looked beautiful. The stork walking about on his long red legs chattered in the Egyptian language, which he had learnt from his mother. The corn-fields and meadows were surrounded by large forests, in the midst of which were deep pools. It was, indeed, delightful to walk about in the country.

VOCABULARY

1. **Juice** does not belong because the rest are pieces of fruit.

2. **Snake** does not belong because the rest have legs, a snake is also a reptile.
3. **Pillow** does not belong, the rest are objects you sit on.
4. **Squirrel** does not belong, because unlike the others it is not a native Australian animal.

UNIT 8

SET 1

Exercise 1

2, 1, 4, 3

Exercise 2

Teacher

SET 2

1. b – because we are being introduced to the main characters, the setting and the situation.
2. b
3. c
4. c
5. b
6. d
7. a

SET 3

1. We know that Sara is feeling scared because she is speaking in a whisper and cuddling close to her papa.
2. Sara's father is taking her to a boarding school.
3. A beautiful bungalow, many servants, toys and pets.
4. Children were usually sent away from India because the climate is unhealthy for them.
5. The word 'obliged' means that you are required to do something.
6. The main idea is that Sara is feeling nervous about leaving her papa to live in a strange and unfamiliar place.

PUNCTUATION

Peter was most dreadfully frightened; he rushed all over the garden, for he had forgotten the way back to the gate. He lost one of his shoes among the cabbages, and the other shoe amongst the potatoes. After losing them, he ran on four legs and went faster, so that I think he might have got away altogether if he had not unfortunately run into a gooseberry net, and got caught by the large buttons on his jacket. It was a blue jacket with brass buttons, quite new.

GRAMMAR

Exercise 1

1. eat
2. enjoys
3. see
4. practises
5. like

Exercise 2

1. are
2. is
3. is
4. are

Vocabulary

1. companion
2. fort
3. meringue
4. porter

UNIT 9

SET 1

Exercise 1

- a)
1. Both games involve a ball.
 2. Both are team sports.
 3. Both involve scoring goals.

- b)
1. In soccer you kick the ball and in netball you pass the ball.
 2. The score is higher in netball than in soccer.
 3. There are 11 players in a soccer team and 7 in a netball team.

Exercise 2

1. alike
2. similarity
3. both
4. differences
5. Unlike
6. difference
7. but
8. Instead

SET 2

1. flows
2. wide
3. fertile
4. floods
5. southern
6. steadily
7. mud
8. connects
9. sail
10. travel

SET 3

1. c
2. c
3. c
4. d
5. d
6. c

SET 4

“Quack?” said Jemima Puddle-duck, with her head and her bonnet on the one side—
“Quack?”

The gentleman raised his eyes above his newspaper and looked curiously at Jemima –
“Madam, have you lost your way?” said he.

He had a long bushy tail which he was sitting upon, as the stump was somewhat damp. Jemima thought him mighty civil and handsome. She explained that she had not lost her way, but that she was trying to find a convenient dry nesting place.

“Ah! is that so? Indeed!” said the gentleman with sandy whiskers, looking curiously at Jemima. He folded up the newspaper and put it in his coattail pocket. Jemima complained of the superfluous hen.

“Indeed! How interesting! I wish I could meet with that fowl. I would teach it to mind its own business! But as to a nest – there is no difficulty: I have a sackful of feathers in my woodshed. No, my dear madam, you will be in nobody's way. You may sit there as long as you like,” said the bushy long-tailed gentleman.

GRAMMAR

Exercise 1

1. shouted
2. planted
3. wandered
4. scratched
5. handed

Exercise 2

1. She **was** running late for her dance class.
2. The elephant **had** not eaten for days.
3. They **were** excited about their adventure holiday.
4. He **did not** think it **was** very funny.

VOCABULARY

1. Her skin was as white as snow.
2. My mum is as wise as an owl.
3. The sunset was like melted ice cream.
4. My brother's singing is like a dog howling at the moon.

Exercise 2

Teacher

UNIT 10

SET 1

Exercise 1

1. c

2. Differences:

Habitat/Location – Africa-India

Size

- a) African elephants are larger and have larger ears than Indian elephants; and/or
- b) An African elephant has two lips on its trunk so it can pick up small objects from the ground; and/or
- c) African elephants are tallest at the shoulder and their skin is more wrinkled, while an Indian elephant is tallest at the arch of the back.

Exercise 2

Teacher

SET 2

1. d

2. d

3. b

4. c

5. c

6.

Similarities

- a. Both are reptiles
- b. Both can lay eggs.
- c. Both can live in water.

Differences

- a. Lizards usually have legs
- b. All snakes are carnivores, some lizards eat plants.
- c. Most lizards are small.

SET 3

1. A meteorite is the remaining part of a meteoroid that survives entering the earth's surface without burning up.

2. Meteors appear to look like stars because they burn brightly as they fall to earth.
3. A meteor shower appears when the earth passes through the trail of debris left by a comet when it orbits the sun.
4. Debris – the rubbish left when something is broken or destroyed.
5. It is important to understand that meteoroids do not originate from the constellations or stars in the constellations.

SET 4

When I was little I used to like the pop singers Madonna, Janet Jackson, Cyndi Lauper and Whitney Houston. Now I don't listen to their music much. When I was little my favourite TV shows were "Mash", "Neighbours", "Home and Away" and "The Goodies". Now I enjoy watching DVDs instead of television. My favourite movies include "The Wedding Singer", "Shadowlands", "Alvin and the Chipmunks" and "Enchanted".

GRAMMAR

Exercise 1

1. beautiful
2. amusing/comical
3. large/huge
4. lovely

Exercise 2

Teacher

VOCABULARY

Exercise 1

1. simile
2. metaphor
3. simile
4. metaphor
5. simile
6. metaphor

Exercise 2

Teacher

General Ability

ANSWERS

Term 1

YEAR 3

UNIT 1

WORD LIST

1. sew
2. bought
3. stiff
4. tune
5. polite
6. sneer
7. inedible
8. scarce
9. strides
10. burst
11. firm
12. special

“ow-” FAMILY

1. follow
2. tower
3. narrow
4. tomorrow
5. towel

USING CLUES (from “ow-” Family)

1. tow
2. drown
3. tomorrow
4. hollow
5. eyebrow
6. marrow
7. shadow
8. sow
9. elbow
10. narrow

JUMBLED WORDS

1. marrow
2. tower
3. narrow
4. eyebrow
5. tomorrow

ANALOGIES

1. four
2. sun
3. elbow
4. beef
5. mouth

YES OR NO QUESTIONS

1. Y
2. N
3. Y
4. Y
5. N

WHAT AM I?

1. shadow
2. towel

CIRCLE THE CORRECT WORD

1. sink
2. narrow
3. hollow
4. tower
5. sow

ODD ONE OUT

1. fifty
2. dog
3. carrot
4. laboratory
5. Jupiter

SYNONYMS

1. location
2. size
3. ideal
4. opponent
5. emotion

ANTONYMS

1. rival
2. entertaining
3. final
4. pleasure
5. genuine

REARRANGED WORDS

1. The athlete was asked to **compete** in the Olympic Games
2. Susan’s mother asked her to **greet** the guests at the door and take their coats.
3. George was feeling **lonely** and bored when he stayed home from school.
4. The horse began to **gallop** through the field, when he was set free.
5. Henry was being very **helpful** to his parents and washed the dishes.

WORD KNOWLEDGE

1. full of strength, energy, liveliness
2. to foretell the future; to say something will happen before the event occurs.
3. a wide street in a city, usually with trees along each side.

IDIOMS

1. c. exactly on time
2. e. to be speechless or in a state of uncertainty
3. a. a silly or foolish person
4. d. be ignored by others
5. b. have casual conversation

G.A TEST

1. 21
2. (a)
3. (c)
4. (d)
5. (a)
6. (c) $2^2-1, 3^2-1, \dots 6^2-1$
7. (a)
8. (b)
9. 16
10. (d)
11. 21, $4 \times 5 + 1 = 21$
12. (c)
13. (d) Food and water is scarce in desert areas.
14. (d)
15. (c)

UNIT 2**WORD LIST**

1. wafted
2. narrow
3. film
4. project
5. steady
6. instead
7. safe(r)
8. proud
9. notice
10. tremble
11. amaze(d)
12. nudge

“ea” FAMILY

1. break
2. meal
3. steal
4. already
5. breakfast

USING CLUES

1. breakfast
2. cheap
3. easy
4. great
5. steak
6. beautiful
7. leave
8. break
9. Easter
10. steal

JUMBLED WORDS

1. instead
2. breakfast
3. steak
4. beautiful
5. leave

YES OR NO QUESTIONS

1. N
2. Y
3. Y
4. N
5. Y

CIRCLE WORDS

1. Each
2. steak
3. beautiful
4. meal
5. instead

WHAT AM I?

1. cheap
2. breakfast

ODD ONE OUT

1. adult
2. three
3. tie
4. eggs
5. tuna

SYNONYMS

1. welcome
2. exist
3. pleasing
4. old
5. tale
6. chatter

ANTONYMS

1. b) impatience
2. d) careful
3. a) end
4. e) racket
5. c) move

WORD KNOWLEDGE

1. to have left one's country or region and to have settled in another.
2. obeying or willing to obey
3. a mark that detracts from appearance, as a pimple or a scar; defect or flaw or stain.

PLURALS

1. The **policemen** **were** eating **their donuts** in **their cars** when the **thieves** drove past.
2. My **friends** and I watched **movies** and played **games** last night.
3. The **babies** **were** crying in **their cribs**, while **their mothers** **were** sleeping in **their rooms**.

CONFUSING PAIRS

1. throne
2. bored
3. warn
4. pane
5. weather

IDIOMS

1. c. to be vulnerable or overcome by
2. b. to scold or tell off
3. d. to spoil someone's plans
4. e. to prevent someone from proceeding
5. a. in a moment

G.A TEST

1. (c)
2. 22
3. (d)

4. (c) $1^3, 2^3, 3^3, \underline{4^3}, 5^3$
5. (a)
6. (c)
7. (a)
8. (a)
9. (c)
10. (b) $5+13=9+9$
11. (c) Seatbelts help to make travelling in a car safer.
12. (c)
13. (b)
14. (d)
15. (d)

UNIT 3**WORD LIST**

1. wound
2. jolt
3. stern
4. quilt
5. limp
6. sense
7. inspect
8. straight
9. shivers
10. faint
11. protect
12. loose

SILENT LETTERS

1. knock
2. tomb
3. sight
4. island
5. lamb

USING CLUES

1. thumb
2. gnaw
3. lamb
4. knob
5. sight
6. listen
7. island
8. knit
9. comb
10. knock

JUMBLED WORDS

1. knowledge
2. sign
3. gnaw
4. knock
5. listen

YES OR NO QUESTIONS

1. Y
2. N
3. Y
4. N
5. N

CIRCLE WORDS

1. lamb
2. knob
3. build
4. tomb
5. listen

ANALOGIES

1. teeth
2. sit
3. ancient
4. solid
5. vegetable

ODD ONE OUT

1. sand
2. forward
3. mild
4. sparrow
5. meringue

SYNONYMS

1. shake
2. thin
3. pleasing
4. request
5. haul
6. avoid

ANTONYMS

1. b) daring
2. c) unfair
3. d) climb
4. a) free
5. e) tacky

WORD KNOWLEDGE

1. raised or elevated, as in rank or character.
2. not having the necessary ability, qualification, or strength to perform some specified act or function.
3. a cloth, often made of or trimmed with lace, worn about the neck by men.

CONFUSING PAIRS

1. blue
2. border
3. veil
4. piece
5. hear

IDIOMS

1. c. having a good chance
2. a. no longer useful or desirable
3. d. done very easily
4. b. a change from what one is used to
5. e. be extremely angry or worried

G.A TEST

1. (b)
2. (a)
3. (d) +5, +10, +20, +40, + ...
4. (b)
5. 33
6. (c)
7. (b)
8. (c)
9. 16
10. (b) The donkey drank its/the water from the/its trough.
11. (d) $(5, 5 \times 3 = 15, (15 - 5) \times 15 = 150)$
12. (c)
13. (b)
14. (b)
15. (a)

UNIT 4

WORD LIST

1. tidy
2. limit
3. alone
4. jeer(ed)
5. blaze
6. dangerous
7. exceeded
8. admire
9. useful
10. shuffle
11. disgust
12. slight

“oo” FAMILY

1. tool
2. shampoo
3. balloon
4. choose
5. smooth

USING CLUES

1. mushroom
2. choose
3. football
4. blood
5. spool
6. spoon
7. balloon
8. shampoo
9. tool
10. smooth

JUMBLED WORDS

1. bedroom
2. loose
3. shampoo
4. balloon
5. mushroom

YES OR NO QUESTIONS

1. Y
2. N
3. Y
4. Y
5. N

CIRCLE WORDS

1. spoon
2. shook
3. shampoo
4. loose
5. mushroom

WHAT AM I?

1. football
2. balloon

ODD ONE OUT

1. exciting
2. plain
3. make
4. harmless
5. always

SYNONYMS

1. recover
2. colour
3. find
4. wake
5. stream
6. damage

ANTONYMS

1. b) grow
2. c) joyous
3. e) talkative
4. a) lying
5. d) obedient

WORD KNOWLEDGE

1. lacking sense, significance, or ideas; silly.
2. destruction; confusion; chaos.
3. sadness; gloominess

PLURALS

1. The **pizzas** the **girls** ate, **were** so delicious that **they** called up **their friends** and told **them** about it.
2. The hungry **wolves** watched the **groups** of sheep in the **fields** and waited hungrily for the right time to make an attack.
3. The little **girls** danced around the **trees** with **their friends** on the **weekends**.

CONFUSING PAIRS

1. wood
2. whine
3. war
4. thyme
5. tax

IDIOMS

1. c. take the cautious risk free approach
2. e. to be very obvious
3. d. truthfully or honestly
4. a. lasting only a short while
5. b. to keep or maintain respect

G.A TEST

1. (a)
2. (c)
3. (a)
4. (d)
5. (d) +4, +8, +16, +32, +...
6. (c) (fruit)
7. (c) $(3 \times 9) + 25 = 52$, $52 \div 4 = 13$
8. (b)
9. (c)
10. (b)
11. 22 $(13 - 2) \times 2 = 22$
12. (c)
13. (a)
14. (a)
15. (d)

UNIT 5**WORD LIST**

1. growl
2. squeeze
3. slumped
4. pierce(d)
5. wicked
6. habit
7. broad
8. fierce
9. filthy
10. thrash
11. greedy
12. crouch(ed)

“ch” FAMILY

1. Christmas
2. chance
3. kitchen
4. champion
5. chew

USING CLUES

1. coach
2. ache
3. Christmas
4. crunch
5. chew
6. kitchen
7. champion
8. punch
9. church
10. speech

JUMBLED WORDS

1. coach
2. punch
3. challenge
4. chance
5. church

YES OR NO QUESTIONS

1. Y
2. N
3. N
4. N
5. Y

CIRCLE WORDS

1. champion
2. punch
3. chase
4. batch
5. ache

ANALOGIES

1. sow
2. lamb
3. repaired
4. six
5. letters

ODD ONE OUT

1. penniless
2. overalls
3. heart
4. dory
5. violin

SYNONYMS

1. unwilling
2. move
3. pleasing
4. sacred
5. sprint
6. reside

ANTONYMS

1. c) enlarge
2. d) patience
3. e) persist
4. a) strong
5. b) attractive

WORD KNOWLEDGE

1. hard to please; excessively particular, critical, or demanding
2. small, exclusive groups of people
3. overfilled or overcrowded

PLURALS

1. The **men** threw the **balls**, into the **fields** and whilst **they were** looking for **them**, **they** fell into **some** rabbit **holes**.
2. "Could you please throw the rotten **tomatoes** and **cherries** into the garbage **bins** and take **them** outside," asked mother.
3. The cute **babies** **were** eating **their** **sandwiches** and playing with **their** **toys**.

CONFUSING PAIRS

1. heel
2. Our
3. ball
4. creek
5. yolk

IDIOMS

1. e. to give up or withdraw
2. d. left alone and given no help at all
3. a. get out of bed full of energy

4. b. how things turn out
5. c. being very successful

G.A TEST

1. (a)
2. (c)
3. (d)
4. (b)
5. (d)
6. (d) $1 \times 2 = 2$, $2 \times 3 = 6$, $6 \times 4 = 24$, $24 \times 5 = 120$
7. (a)
8. (d)
9. 16
10. (c)
11. (c)
12. (a)
13. (c)
14. (a)
15. (d) He is a very cautious man.

UNIT 6**WORD LIST**

1. comfort
2. warn
3. hush
4. rear
5. forth
6. tease
7. remain
8. stain
9. dread
10. tumble(d)
11. sway
12. snarled

"er" FAMILY

1. teacher
2. number
3. stranger(s)
4. thunder
5. damper

USING CLUES

1. thunder
2. teacher
3. blunder
4. enter

5. newspaper
6. number
7. computer
8. pamper
9. damper
10. underground

JUMBLED WORDS

1. underground
2. pamper
3. stranger
4. corner
5. never

YES OR NO QUESTIONS

1. N
2. N
3. Y
4. N
5. N

CIRCLE WORDS

1. enter
2. newspaper
3. blunder
4. teacher
5. wonder

WHAT AM I?

1. newspaper
2. stranger

ODD ONE OUT

1. miniscule
2. wicked
3. document
4. crab
5. weed

SYNONYMS

1. overhear
2. noise
3. wrongdoing
4. ally
5. continue
6. reject

ANTONYMS

1. e) commend
2. a) sweet
3. d) command

4. b) dishonest
5. c) continue

WORD KNOWLEDGE

1. extremely talkative
2. a usually small and relatively inexpensive article given, kept, or purchased as a reminder of a place visited, an occasion, etc.; memento.
3. without regard to something else, esp. something specified; ignoring.

PLURALS

1. The **foxes** ate the **rats**, and then retired away back into **their dens**.
2. My **hands** and **fingers** were aching badly, after spending all day trying to catch **crabs**.
3. The **families**, set up their **picnics**, on the top of the **hills** next to the **lakes**.

CONFUSING PAIRS

1. berry
2. by
3. cell
4. bait
5. wine

IDIOMS

1. b. at running speed
2. d. to irritate a person
3. e. thirteen
4. a. without support
5. c. pretend not to notice

G.A TEST

1. (c)
2. (c)
3. (a)
4. (d)
5. (b) $(7+1) \times 7 = 56$
6. (b)
7. (b)
8. (a)
9. (b)
10. (d)
11. (a)
12. (d)
13. 40 $(19+1) \times 2 = 40$
14. (b)
15. (d) He spoke three languages fluently.

UNIT 7

WORD LIST

1. contain
2. wistful(ly)
3. mischief
4. desolate
5. overwhelm
6. emerge
7. luminous
8. immediately
9. miserable
10. peculiar
11. Mildew
12. brute

“OR” FAMILY

1. mirror
2. doctor
3. work
4. comfortable
5. actor

USING CLUES

1. tractor
2. actor
3. tailor
4. forget
5. work
6. mirror
7. bored
8. worse
9. world
10. doctor

JUMBLED WORDS

1. comfortable
2. tailor
3. report
4. worth
5. bored

TRUE OF FALSE?

1. F
2. T
3. T
4. F
5. T

WHAT AM I?

1. tractor
2. tailor

CIRCLE THE CORRECT WORD

1. world
2. doctor
3. tailor
4. report
5. worse

ODD ONE OUT

1. brave
2. wood
3. chest
4. metal
5. New Zealand

SYNONYMS

1. shy
2. slim
3. dirt
4. achieve
5. pair

ANTONYMS

1. slavery
2. dawdle
3. horrid
4. scowl
5. publicity

REARRANGED WORDS

1. continued
2. calculate
3. rehearse
4. prawns
5. cereal

WORD KNOWLEDGE

1. **foliage** – leaves on a plant.
2. **mozzarella** – a type of cheese.
3. **stethoscope** – a doctor’s tool used to hear a patient’s heart beat.

IDIOMS

1. b. approach a task gradually or carefully
2. d. as seen from above
3. e. go for a short walk

4. a. retain respect
5. c. having many interests at the same time

G.A TEST

1. c
2. potion
3. 8
4. b
5. d
6. a
7. dame → game
8. b
9. d
10. 67
11. taste
12. c
13. d
14. a
15. K

UNIT 8

WORD LIST

1. purpose
2. quality
3. extraordinary
4. vanish
5. ridiculous
6. absolute
7. despair
8. suggest
9. ought
10. hideous
11. Marvellous
12. frantic

“AI” FAMILY

1. plain
2. fountain
3. maintain
4. upstairs
5. drain

USING CLUES

1. available
2. plain
3. drain

4. fountain
5. certain
6. stain
7. explain
8. upstairs
9. captain
10. against

JUMBLED WORDS

1. certain
2. available
3. curtain
4. repair
5. bargain

TRUE OF FALSE?

1. T
2. F
3. F
4. T
5. F

CIRCLE WORDS

1. certain
2. available
3. fountain
4. bargain
5. stain

WHAT AM I?

1. drain
2. captain

ODD ONE OUT

1. truck
2. sing
3. tractor
4. Tokyo
5. sit

SYNONYMS

1. search
2. rerun
3. wreck
4. flare
5. cruise
6. savage

ANTONYMS

1. b. heavy
2. d. show
3. e. slow
4. c. clash
5. a. sweet

WORD KNOWLEDGE

1. **tranquil** – quiet, peaceful.
2. **jubilant** – happy, ecstatic.
3. **lavish** – extravagant, a lot.

PLURALS

1. The **chefs** sent **faxes**, to **their cousins**, to inform **them** that the **geese** had been cooked.
2. The **teachers** sent the **boys** outside the **rooms** and said “Come back in once you’ve straightened **yourselves** out.”
3. The **boys** and **girls** held hands and walked through the **fields**, where they saw **wolves**.

CONFUSING PAIRS

1. build
2. currants
3. prey
4. cellar
5. guessed

IDIOMS

1. d.
2. e.
3. b.
4. c.
5. a.

G.A TEST

1. c
2. b (Fiona)
3. b
4. a) occasion
b) thermometer
c) poultry
d) government
5. d
6. a
7. d
8. 20, $(12+28) \div 2 = 20$
9. b
10. a

11. c
12. crescent → present
13. A, H, I, M, O, T, U, V, W, X, Y
14. d
15. c

UNIT 9**WORD LIST**

1. murky
2. glimpse
3. declare
4. recline
5. slight
6. cautious
7. tremendous
8. mysterious
9. inspect
10. midget
11. nuisance
12. bittersweet

“Y” FAMILY

1. Italy
2. ordinary
3. family
4. grumpy
5. duty

USING CLUES

1. extraordinary
2. city
3. family
4. empty
5. hungry
6. Italy
7. ordinary
8. pretty
9. busy
10. grumpy

JUMBLED WORDS

1. ordinary
2. extraordinary
3. empty
4. grumpy
5. Probably

TRUE OF FALSE?

1. T
2. T
3. F
4. T
5. T

CIRCLE WORDS

1. extraordinary
2. city
3. hungry
4. busy
5. Suddenly

WHAT AM I?

1. Italy
2. ordinary

ODD ONE OUT

1. milk
2. water
3. head
4. basketball
5. seventeen

SYNONYMS

1. mix
2. thought
3. concert
4. break
5. devour
6. area

ANTONYMS

1. d. cheap
2. a. gloomy
3. c. corrupt
4. e. present
5. b. ordinary

WORD KNOWLEDGE

1. **edible** – possible to be eaten.
2. **hygiene** – cleanliness, sanitation.
3. **octet** – a band of eight musical instruments/people.

CONFUSING PAIRS

1. horse
2. dessert
3. board

4. Russia
5. knows

IDIOMS

1. c. be quick witted
2. d. to exercise with weights
3. e. to act quickly, and energetically
4. b. available and ready to use
5. a. an ancient but untrue story

G.A TEST

1. $2\frac{1}{2}$
2. b
3. c
4. parcel → castle
5. b
6. ideas
7. d
8. c
9. a
10. 10
11. a) steel
b) piece
12. d
13. a
14. c
15. a) way
b) never

UNIT 10**WORD LIST**

1. famished
2. wither
3. splendid
4. bother
5. hysterics
6. scornful
7. intent
8. primly
9. behold
10. murmur
11. approval
12. Meanwhile

“EY” FAMILY

1. eyewitness
2. chimney
3. money
4. storey
5. obey

USING CLUES

1. kidney
2. donkey
3. honey
4. Sydney
5. chimney
6. key
7. eyes
8. storey
9. valley
10. obey

JUMBLED WORDS

1. eyewitness
2. honey
3. chimney
4. valley
5. eyepiece

TRUE OR FALSE?

1. F
2. T
3. F
4. F
5. F

CIRCLE WORDS

1. obey
2. donkey
3. kidney
4. valley
5. eyewitness

WHAT AM I?

1. chimney
2. Sydney

ODD ONE OUT

1. wrong
2. catch
3. lose
4. sand

5. warm

SYNONYMS

1. sliver
2. barb
3. benefit
4. compact
5. gala
6. gain

ANTONYMS

1. e. expansive
2. d. straight
3. a. adult
4. b. smooth
5. c. death

WORD KNOWLEDGE

1. cistern – a tank for storing water, esp. as part of a toilet.
2. quarantine – a period of isolation for protection from disease.
3. manger – a box or trough in a stable or barn from which horses or cattle eat

CONFUSING PAIRS

1. thyme
2. weight
3. worn
4. cheque
5. vein

PLURALS

1. The **mice** in the **libraries** scared the **families** and they ran outside into the **parks**.
2. The **boys** and **their dogs**, walked through the **streets** and heard **babies** crying in the **houses**.
3. The **leaves** began to turn brown as **they were** left on the **tables** for too long.

IDIOMS

1. d. to make something important
2. e. to reduce by a significant amount
3. a. be well informed
4. b. become insane or go mad
5. c. to avoid answering someone's questions

G.A TEST

1. innings
2. a
3. b
4. c
5. d
6. b
7. 29
8. a
9. ring
10. b
11. 16
12. a
13. d (Swedes)
14. c
- 15.



Essential Mathematics

ANSWERS

Term 1

YEAR 3

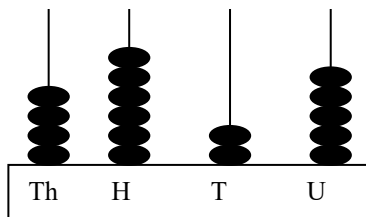
UNIT 1

Number to 9999

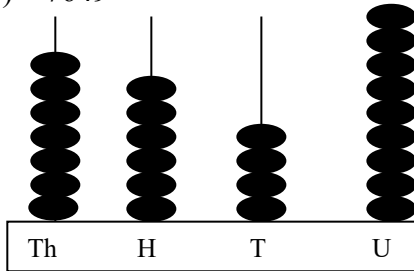
1. a) 1228 b) 1314
c) 2232 d) 2307
2. a) 1533 b) 1621
c) 1203 d) 1067
e) 1101 f) 1233

Place Value

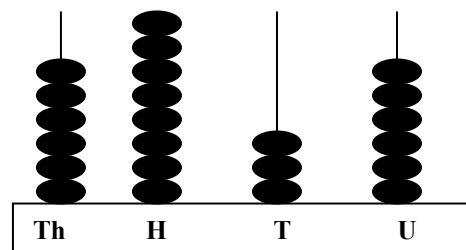
1. 2, 3, 4, 6
2. a) 4625



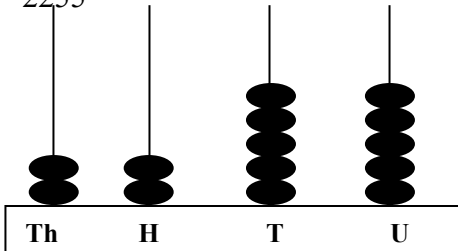
b) 7649



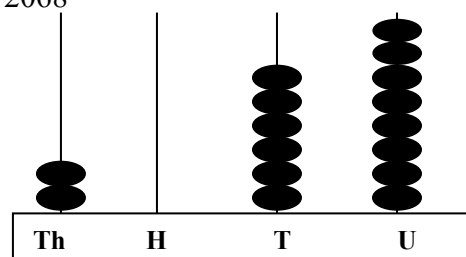
c) 6836



d) 2255



e) 2068



3. a) 4 thousands b) 8 hundreds
c) 9 hundreds d) 1 Unit
e) 3 tens f) 9 thousands
g) 5 hundreds h) 2 tens
i) 7 tens j) 6 units

4.	Thousands	Hundreds	Tens	Units
a)	7	3	4	8
b)	0	3	8	1
c)	2	9	3	5
d)	1	0	0	7
e)	0	0	8	6

Expanded Notation

1. a) 2000, 600, 90, 7
b) 5000, 200, 80, 1
c) 1000, 100, 70, 0
d) 1000, 0, 20, 3
e) 8000, 400, 90, 2
f) 4659
g) 3491
h) 1928
i) 1364
j) 567
k) 820

Ordering Numbers

1. a) 8507, 7503, 5073, 2057
b) 3658, 2800, 2654, 1888
c) 8463, 3541, 2707, 2657
d) 5234, 4532, 3624, 2453
2. a) 732 b) 1284
c) 869 d) 4174
e) 2753
3. a) 6354, 6425, 6453, 6534, 6542
b) 8054, 8405, 8450, 8504, 8540
c) 3026, 3206, 3260, 3602, 3620
4. a) 653 b) 9760
c) 5432 d) 7531
5. a) 4567 b) 3669
c) 2477 d) 3679

Rounding Off

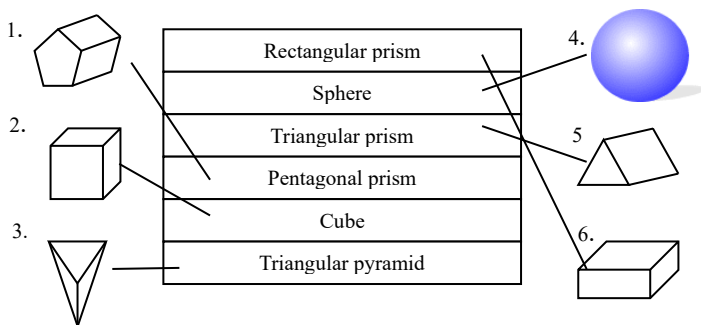
1. a) 274, 263, 298, 330, 305
b) 473, 487, 542, 525, 512
2. a) 200 b) 600
c) 300 d) 1200
e) 3000 f) 6400
3. a) 70 b) 1300
c) 120 d) 1130
e) 260 f) 100
g) 430 h) 140
i) 500 j) 40
4. a) 200 b) 1900
c) 100 d) 1700
e) 200 f) 1000
g) 100 h) 1600
i) 300 j) 300
5. a) True b) True
c) True d) True
e) False

Quick Questions

A:

1. 700
2. 652
3. thousands
4. 15
5. 23
6. 29
7. three hundred and twenty-six
8. 11, 348, 615
9. $5000+400+10+1$
10. 5763

B:



C:

1. 3819, 6721, 8924
2. 2487, 2635, 2711
3. 111, 385, 907
4. 7621, 7921, 8051
5. 1213, 2148, 2968
6. 8110, 8376, 8428

UNIT 2

Adding Facts

1.

2	3	4	6	7	8	9	10	11	12
3	4	5	7	8	9	10	11	12	13
4	5	6	8	9	10	11	12	13	14
6	7	8	10	11	12	13	14	15	16
7	8	9	11	12	13	14	15	16	17
8	9	10	12	13	14	15	16	17	18
9	10	11	13	14	15	16	17	18	19
11	12	13	15	16	17	18	19	20	21
12	13	14	16	17	18	19	20	21	22

Addition Strategies

1. a) 18 b) 19
c) 18 d) 19
e) 16 f) 19
g) 17 h) 29
2. a) 24 b) 32
c) 48 d) 28
e) 36 f) 68
g) 84 h) 50
i) 44 j) 90

Jump Strategies

1. b) $26 + 50 + 4 = 80$
c) $77 + 10 + 6 = 93$
d) $48 + 20 + 4 = 72$
e) $54 + 20 + 6 = 80$
f) $47 + 20 + 5 = 72$
g) $42 + 30 + 5 = 77$
h) $67 + 20 + 4 = 91$

2. a)

+ 36	
42	78
31	67
53	89

b)

+ 64	
34	98
45	109
26	90

c)

+ 47	
22	69
33	80
31	78

d)

+ 44	
44	88
23	67
35	79

Split Strategy

1. a) $70 + 9 = 79$
- b) $80 + 12 = 92$
- c) $70 + 14 = 84$
- d) $60 + 12 = 72$
- e) $80 + 8 = 88$
- f) $80 + 5 = 85$
- g) $60 + 16 = 76$
- h) $70 + 14 = 84$
- i) $70 + 14 = 84$

2. a) 96 b) 78
- c) 89 d) 76
- e) 69 f) 76

3. a) 72 b) 93
- c) 91 d) 91
- f) 80 g) 60

4. (From top to Bottom):

43, 61, 57, 41, 31, 42, 64, 41, 71, 73, 43,
90, 43, 77

5. Across: 1. 39
2. 46
4. 55
5. 34
7. 87
9. 51
12. 77
13. 73

- Down: 1. 33
2. 45
3. 85
4. 57
6. 45
8. 67
10. 17
11. 71

1. a. 579
- b. 959
- c. 829

2. a. 814 b. 984
- c. 737 d. 668
- e. 859 f. 877
- g. 519 h. 605
- i. 819 j. 730
- k. 873 l. 676
- m. 446 n. 863
- o. 462

3. a. 215, 130 b. 107, 238
- c. 228, 117 d. 225, 120
- e. 201, 144 f. 249, 96

4. 25, 142, 259, 376, 493, 610, 727

5. 21, 79, 133, 218, 285, 435

Quick Questions

A:

1. 39
2. 15
3. 627
4. 3
5. 859
6. 10
7. 31
8. 60
9. 6
10. 9

B:

100 Less	Number	100 more
400	500	600
350	450	550
721	821	921
663	763	863
130	230	330
469	569	669

C:

1. 93
2. 50
3. 36
4. 59

UNIT 3

1. (Clockwise)

- a. 12, 5, 0, 8, 9, 9, 7, 9
- b. 3, 8, 9, 7, 2, 13, 1, 0
- c. 6, 10, 3, 9, 0, 7, 2, 8

2.

a.

- 6	
10	4
12	6
14	8
16	10
18	12

b.

- 5	
10	5
12	7
14	9
16	11
23	18

c.

- 7	
15	8
16	9
17	10
18	11
24	17

d.

- 8	
18	10
19	11
20	12
21	13
32	24

e.

- 9	
20	11
21	12
22	13
23	14
35	26

Subtraction Strategies

- 1 a. $6 (90 - 30 = 60)$
- b. $2 (90 - 70 = 20)$
- c. $5 (80 - 30 = 50)$
- d. $3 (70 - 40 = 30)$
- e. $5 (90 - 40 = 50)$
- f. $3 (80 - 50 = 30)$
- g. $4 (60 - 20 = 40)$
- h. $1 (50 - 40 = 10)$
- i. $2 (80 - 60 = 20)$
- j. $2 (70 - 50 = 20)$

Jump Strategies

- 2 a. 24 b. 35
 c. 22 d. 42
 e. 51 f. 68

Two-digit Subtraction

- 1 a. 43 b. 10 c. 27
 d. 35 e. 34 f. 42
 g. 31 h. 24 i. 31
- 2 a. 9 b. 9 c. 9
 d. 26 e. 6 f. 3
 g. 27 h. 17 i. 23

Three-digit Subtraction

- 1 a. 414 b. 161 c. 502
 d. 402 e. 111 f. 386
 g. 662 h. 435 i. 835
- 2 a. 479 b. 346 c. 732
 d. 658 e. 616 f. 247
 g. 369 h. 639 i. 565
- 3 a. 274 b. 293 c. 483
 d. 285 e. 152 f. 375
 g. 182 h. 796 i. 581
- 4 a. 588 b. 376 c. 159
 d. 278 e. 356 f. 895
 g. 86 h. 574 i. 268
- 5 a. 128 b. 39 c. 221
 d. 10 e. 621 f. 845

Quick Questions

A:

1. 3:00
2. 366
3. 10
4. 5
5. 58
6. 25
7. 11am
8. 6
9. 35
10. Summer

B:

1. 7
2. 7
3. 98

4. 68
5. 59
6. 3
7. 8
8. 58
9. 92
10. 280

C:

a.

$$\begin{array}{r} 24 \\ - 13 \\ \hline 11 \end{array}$$

	1	1
+	1	3
<hr/>		
	2	4

b.

$$\begin{array}{r} 46 \\ - 34 \\ \hline 12 \end{array}$$

	1	2
+	3	4
<hr/>		
	4	6

c.

$$\begin{array}{r} 39 \\ - 17 \\ \hline 22 \end{array}$$

	2	2
+	1	7
<hr/>		
	3	9

d.

$$\begin{array}{r} 32 \\ - 9 \\ \hline 23 \end{array}$$

	2	3
+	9	
<hr/>		
	3	2

UNIT 4

×	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14	16	18	20
3	0	3	6	9	12	15	18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	40
5	0	5	10	15	20	25	30	35	40	45	50
6	0	6	12	18	24	30	36	42	48	54	60
7	0	7	14	21	28	35	42	49	56	63	70
8	0	8	16	24	32	40	48	56	64	72	80
9	0	9	18	27	36	45	54	63	72	81	90
10	0	10	20	30	40	50	60	70	80	90	100

Yellow- 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100

Blue – 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Green- 9, 18, 27, 36, 45, 54, 63, 72, 81, 90

Red- 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90, 96

Refer to Multiplication grid above

Multiplication Tables : ×7

1.

$1 \times 7 = 7$	$2 \times 7 = 14$
$3 \times 7 = 21$	$4 \times 7 = 28$
$5 \times 7 = 35$	$6 \times 7 = 42$
$7 \times 7 = 49$	$8 \times 7 = 56$
$9 \times 7 = 63$	$10 \times 7 = 70$

- 2 a. $7 \times 6 = 42$
 b. $7 \times 8 = 56$
 c. $5 \times 7 = 35$
 d. $7 \times 7 = 49$

Multiplication Tables : ×11

$1 \times 11 = 11$
 $2 \times 11 = 22$
 $3 \times 11 = 33$
 $4 \times 11 = 44$
 $5 \times 11 = 55$
 $6 \times 11 = 66$
 $7 \times 11 = 77$
 $8 \times 11 = 88$
 $9 \times 11 = 99$
 $10 \times 11 = 110$

1.

- a. $2 \times 11 = 11 \times 2 = 22$
 b. $4 \times 11 = 11 \times 4 = 44$
 c. $8 \times 11 = 11 \times 8 = 88$
 d. $7 \times 11 = 11 \times 7 = 77$
 e. $6 \times 11 = 11 \times 6 = 66$
 f. $3 \times 11 = 11 \times 3 = 33$
 g. $10 \times 11 = 11 \times 10 = 110$

2.

- a. $4 \times 11 = 44$
 b. $8 \times 11 = 88$
 c. $7 \times 11 = 77$
 d. $9 \times 11 = 99$

3.

- | | |
|-------|--------|
| a. 77 | b. 110 |
| c. 66 | d. 88 |
| e. 33 | f. 55 |

4. (Following the track):

7, 63, 42, 33, 88, 70, 11, 49, 0, 110, 77, 0, 14, 28, 22, 66, 35, 21

5.

	3	7	4	5	2	10	6	9	8
×7	21	49	28	35	14	70	42	63	56
×11	33	77	44	55	22	110	66	99	88

Multiplication Tables: ×12

$1 \times 12 = 12$
 $2 \times 12 = 24$
 $3 \times 12 = 36$
 $4 \times 12 = 48$
 $5 \times 12 = 60$
 $6 \times 12 = 72$
 $7 \times 12 = 84$
 $8 \times 12 = 96$
 $9 \times 12 = 108$
 $10 \times 12 = 120$

1. (Starting from top left hand corner)

120, 108, 96, 84, 72, 60, 48, 36, 24, 12

2.

- | | | |
|-------|-------|--------|
| a. 24 | b. 48 | c. 72 |
| d. 96 | e. 36 | f. 108 |
| g. 84 | h. 60 | |

3.

- a. $12 \times 3 = 36$
 b. $12 \times 5 = 60$
 c. $12 \times 7 = 84$

Multiples and Factors

1.

- a. 35 b. 66 c. 40
 d. 60 e. 36 f. 72
 g. 36 h. 77 i. 20
 j. 90

2.

- a. 1, 2, 4, 8 b. 1, 3, 5, 15
 c. 1, 2, 3, 4, 6, 12 d. 1, 2, 4, 5, 10, 20
 e. 1, 2, 4, 8, 16

3.

- a. 14, 28, 7, 42, 21, 35
 b. 21, 49, 63, 56

4.

- a. 14, 21, 28, 35, 42, 49, 56, 63
 b. 10, 15, 20, 25, 30, 35, 40, 45
 c. 18, 27, 36, 45, 54, 63, 72, 81
 d. 8, 12, 16, 20, 24, 28, 32, 36
 e. 6, 9, 12, 15, 18, 21, 24, 27
 f. 24, 36, 48, 60, 72, 84, 96, 108

Square Numbers

1. Coloured: 1, 4, 9, 25, 36, 49, 64, 81, 100

The extended multiplication algorithm

1.

- a. 60 b. 92
 c. 81 d. 145
 e. 114

Short Multiplication

1.

- a. 75 b. 135
 c. 198 d. 184
 e. 266 f. 306
 g. 216 h. 352
 i. 324

Quick Questions

A:

1. \$3
 2. 56
 3. hundreds
 4. 0

5. 48

6. Four hundred and four

7. 103

8. 69

9. 12

10. 14

B:

1.

×	7	8	9	10
2	14	16	18	20

2.

×	3	4	5	6
4	12	16	20	24

3.

×	9	10	5	8
8	72	80	40	64

4.

×	3	6	5	4
6	18	36	30	24

5.

×	2	8	10	7
7	14	56	70	49

6.

×	3	7	4	8
12	36	84	48	96

UNIT 5

- 1 a. 5 b. $12 \div 3 = 4$
 c. $30 \div 6 = 5$ d. $15 \div 5 = 3$
- 2 a. 20 b. 2
 c. 10 d. 5
 e. 4
- 3 a. 8 b. 4
 c. 12 d. 3

Division facts from multiplication

- 1 a. 12 ($12 \div 2 = 6$)
 b. 27 ($27 \div 3 = 9$)
 c. 20 ($20 \div 4 = 5$)
 d. 24 ($24 \div 6 = 4$)
 e. 40 ($40 \div 8 = 5$)
 f. 72 ($72 \div 9 = 8$)
 g. 110 ($110 \div 11 = 10$)
- 2 a. i) 20, 20
 ii) 4, 4
 iii) 5, 5
 b. i) 24, 24
 ii) 3, 3
 iii) 8, 8
 c. i) 18, 18
 ii) 9, 9
 iii) 2, 2
3. a. 5 b. 4
 c. 7 d. 6
 e. 77 f. 11
- 4.

a.

$\div 6$	
6	1
18	3
12	2
24	4
30	5
42	7
36	6
48	8

b.

$\div 7$	
7	1
28	4
14	2
56	8
21	3
35	5
49	7
70	10

c.

$\div 11$	
44	4
11	1
66	6
77	7
110	10
99	9
22	2
88	8

d.

$\div 12$	
24	2
48	4
12	1
60	5
84	7
36	3
72	6
96	8

Division with remainders

Example a) 3 b) 5 c) 3r3

1. a. $54 \div 5 = 10 \text{ r } 4$
 b. $36 \div 4 = 9 \text{ r } 0$
 c. $60 \div 7 = 8 \text{ r } 4$
 d. $54 \div 9 = 6 \text{ r } 0$
2. a. 6 r 6 b. 5 r 0
 c. 5 r 2 d. 6 r 6
3. a. 3 r 1 b. 5 r 1
 c. 3 r 1 d. 3 r 3
 e. 3 r 2 f. 8 r 1
 g. 4 r 2 h. 7 r 7
 i. 7 r 3 j. 3 r 2

Division Symbol

1. a. 6 b. 5 c. 5
 d. 7 e. 4 f. 4
 g. 9 h. 2 i. 3
 j. 9
2. a. 6 b. 9 c. 2
 d. 3 e. 10 f. 8
 g. 5 h. 7
- circle ii)
3. a. 2 r 2 b. 4 c. 4 r 4
 d. 10 r 2 e. 2 r 1 f. 1 r 1
 g. 4 h. 7 i. 2 r 1
 j. 5
4. a. 6, 3, 18, 2, 20, 5, 50, 10, 80, 10, 2
 b. 24, 8, 28, 4, 24, 6, 36, 4, 21, 7, 56

Quick Questions

A:

1. 5
2. 6
3. yes
4. 18
5. 2930
6. 10
7. 359
8. 54
9. 16
10. 25

B:

1. 2, 20, 200
2. 7, 70, 700
3. 4, 40, 400
4. 3, 30, 300
5. 9, 90, 900
6. 3, 30, 300

C:

1. 2
2. 5
3. \$3
4. 4
5. 8

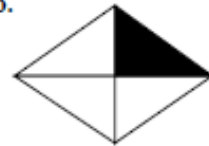
UNIT 6

Halves and quarters of whole

1. a.



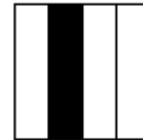
b.



c.



d.



e.



2. a.



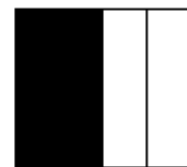
b.



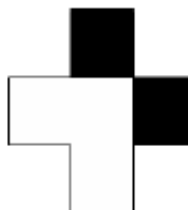
c.



d.



e.



Halves and quarters of a group

1. a.



b.



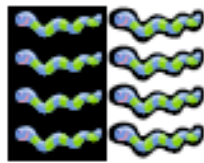
c.



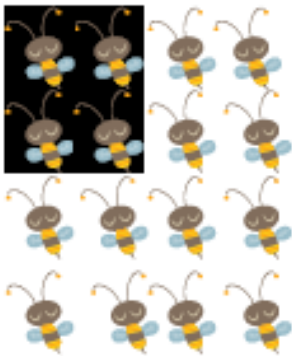
d.



e.



f.



g.



h.



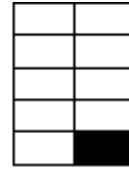
Fractions as parts of a group

1. a. 9, 12 b. 7, 12
 c. 5, 12 d. 12, 13
 e. 7, 10 f. 1, 7

2. a.



b.



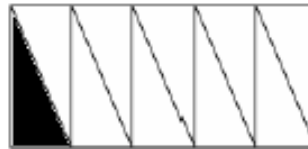
c.



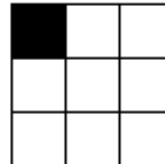
d.



e.



f.

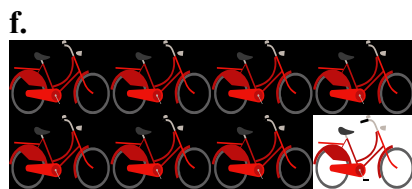
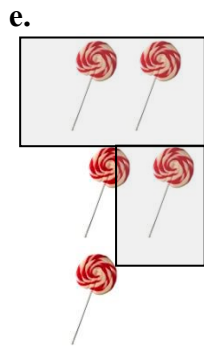
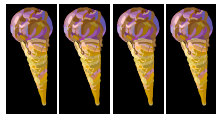


3a.



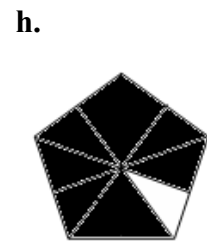
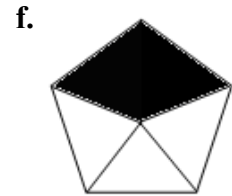
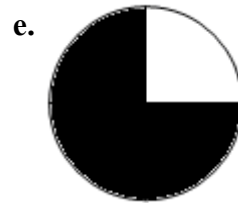
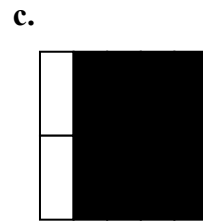
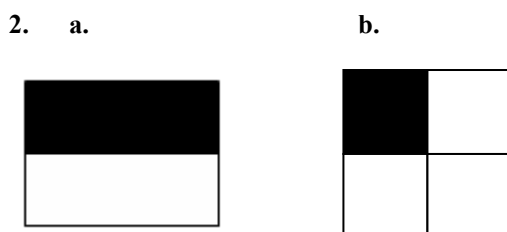
b.





Naming Fractions

1. a. $\frac{1}{5}$ b. $\frac{2}{6}$
 c. $\frac{5}{8}$ d. $\frac{1}{8}$
 e. $\frac{3}{5}$ f. $\frac{7}{10}$
 g. $\frac{1}{4}$ h. $\frac{3}{5}$



3. a. $\frac{2}{3}$ b. $\frac{1}{8}$
 c. $\frac{1}{6}$ d. $\frac{3}{5}$
 e. $\frac{1}{12}$ f. $\frac{1}{2}$
 g. $\frac{7}{8}$ h. $\frac{3}{4}$
 i. $\frac{5}{6}$ j. $\frac{4}{8}$

Comparing the Order Fractions

1. a. $\frac{1}{2}$ b. $\frac{1}{8}$
 c. $\frac{1}{4}$ d. $\frac{1}{4}$
 e. $\frac{6}{8}$
2. a) i. 2 ii. 4
 iii. 8 iv. 5
 v. 10

- b) i. True ii. True
 iii. False iv. False
 v. True vi. False
 vii. True viii. True

3. a. $\frac{1}{8}$ b. $\frac{1}{5}$
 c. $\frac{1}{5}$ d. $\frac{1}{2}$
 e. $\frac{1}{4}$ f. $\frac{1}{4}$

4. a. 4, 3, 1, 2 b. 4, 1, 2, 3
 c. 3, 2, 1, 4 d. 4, 1, 2, 3
 e. 4, 3, 2, 1

5. a. 1, 4, 3, 2 b. 3, 1, 2, 4
 c. 4, 1, 3, 2 d. 3, 2, 4, 1

Fraction of a collection

1. a. 3 b. 2 c. 2
 2. a. $\frac{1}{2}$ b. 5 c. 1
 d. 4 e. 4 f. 4

Quick Questions

A:

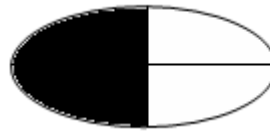
1. 35
2. 54
3. 120
4. 1000
5. 1000
6. 30
7. 4
8. February
9. 6
10. 0

B:

1.



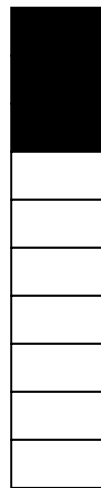
2.



3.



4.



5. 9
6. 15
7. 3
8. 8
9. 50
10. 6

C:

- | | |
|------|-------|
| 1. 9 | 2. 72 |
| 3. 3 | 4. 27 |

UNIT 7

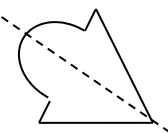
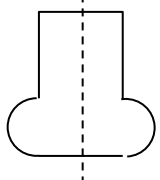
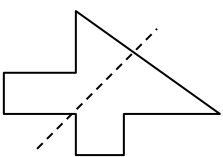
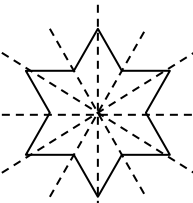
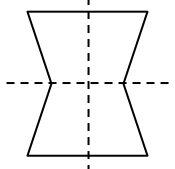
Number Patterns

1. 13, 23, 33, 43, 53, 63, 73, 83, 93
2. 14, 24, 34, 44, 54, 64, 74, 84, 94
3.
 - a. 12, 14, 16, 20
 - b. 46, 52, 58, 70
 - c. 18, 21, 24, 30
 - d. 34, 38, 42, 50
4.
 - a. 19, 22, 25, 28, add 3
 - b. 50, 55, 60, 65, add 5
 - c. 24, 28, 32, 36, add 4
 - d. 34, 38, 42, 46, add 4
 - e. 256, 512, 1024, 2048, multiply by 2
5.
 - a. 24, 21, 18, 12, 6, 3
 - b. 6, 10, 14, 26, 30, 34
 - c. 14, 16, 17, 19, 20

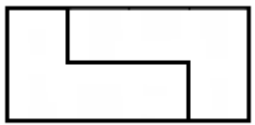
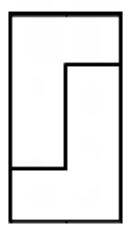
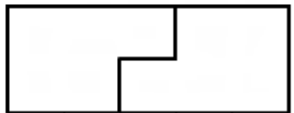
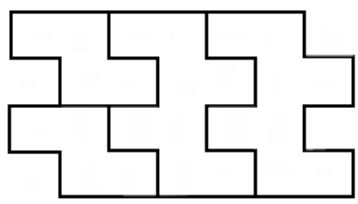
Patterns in Hundred Chart

1. teacher mark
2. teacher mark




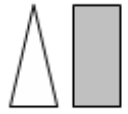
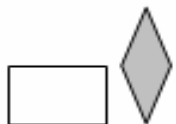
Symmetry

1. a. 
- b. 
- c. 
- d. 
- e. 

Tessellation

1. a. 
- b. 
- c. 
- d. 

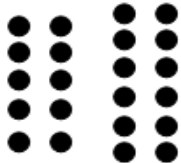
Repeating Patterns

1. a. 
- b. 
- c. 
- d. 
- e. 

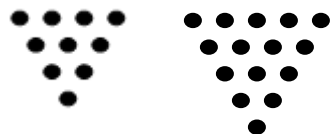
Sequence of Triangles

1. a) 15
- b) 21
- c) 28
- d) 36
- e) 45

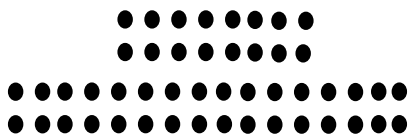
2. a.



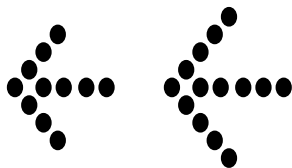
b.



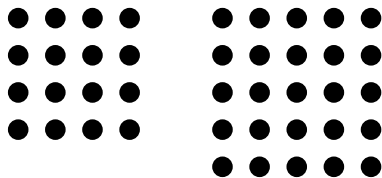
c.



d.



e.



Quick Questions

A.

1. 7
2. 3
3. 20
4. 4
5. 26, 32, 38, 44, 50
6. 1930
7. 240cm
8. 15 minutes
9. Cylinder
10. A, E

B.

1. 20
2. 55
3. 56
4. 30
5. 136

UNIT 8

Centimetres

1. a. 2
- b. 4
- c. 7
- d. 10
- e. 13

2. a. 9.2 cm
- b. 6.3 cm
- c. 7.3 cm
- d. 5.4 cm
- e. 9.1 cm
- f. 3.6 cm

Decimal Notation

Metres and Centimetres

1. a. 100
- b. 50
- c. 300
- d. 600
- e. 125
- f. 150

2. a. 1.47
- b. 2.25
- c. 0.75
- d. 5.32
- e. 0.24
- f. 7.56

Millimetres

1. a. 10
- b. 40
- c. 60
- d. 80
- e. 100

2. a. 74
- b. 115
- c. 37
- d. 64

Changing a metric unit into another

1. a. 40
- b. 90
- c. 5
- d. 55
- e. 35
- f. 160

2. a. 4.5
- b. 8.2
- c. 12
- d. 14.6
- e. 17.2

Perimeter

1. (may vary)
 - a. 12.6 cm
 - b. 21.2 cm
 - c. 14.8 cm
 - d. 21 cm
 - e. 158 mm
 - f. 242 mm

Quick Questions

A.

1. 111
2. 50
3. 400, 401
4. one hundred and two
5. 513
6. 130
7. 800
8. 0.23
9. 1.2, 1.6, 1.7
10. $\frac{8}{10} = \frac{4}{5}$

B.

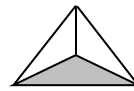
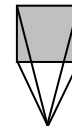
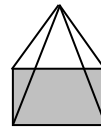
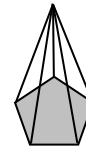
1. 14
2. 14
3. 16
4. 26
5. 20

UNIT 9

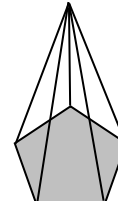
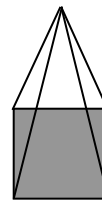
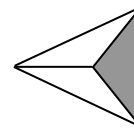
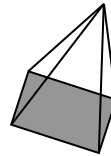
1.
 - a. Cube
 - b. Rectangular prism
 - c. Pentagonal prism
 - d. Triangular prism
 - e. Octagonal prism
 - f. Hexagonal prism
2.
 - a. 1, 2
 - b. 1, 2
 - c. 1, 2
 - d. 1, 2
 - e. 1, 2
 - f. 1, 2

Pyramids

1.

Triangular
PyramidSquare
PyramidRectangular
PyramidPentagonal
Pyramid

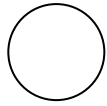
2.

**Cones and Spheres**

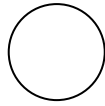
1.
 - a. cross
 - b. colour
 - c. circle
 - d. cross
 - e. colour
 - f. cross, circle
 - g. circle
 - h. cross
 - i. cross
 - j. colour

Cross sections

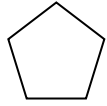
1. a.



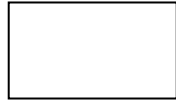
b.



c.



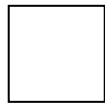
d.



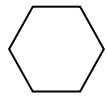
e.



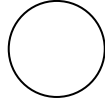
f.



g.

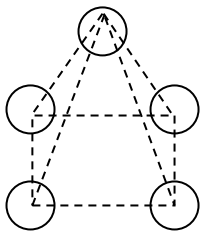


h.

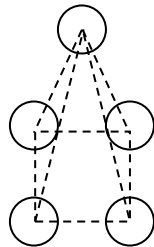


Faces, Vertices and Edges

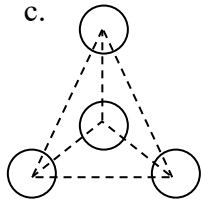
1 a.



b.



c.



2.

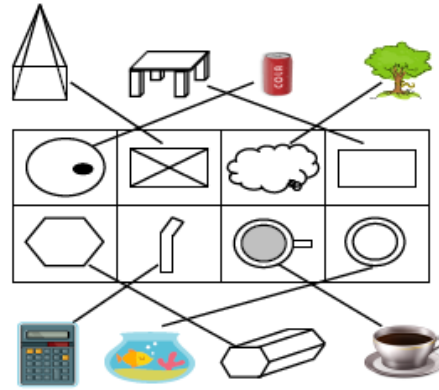
- a. Rectangular Pyramid
- b. Hexagonal Pyramid
- c. Pentagonal Pyramid
- d. Octagonal Pyramid
- e. Triangular Pyramid
- f. Square Pyramid

3.

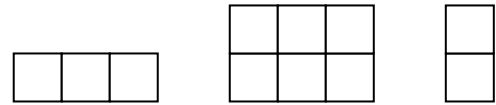
- a. 6, 12, 8
- b. 10, 24, 16
- c. 6, 12, 8
- d. 8, 18, 12
- e. 5, 9, 6
- f. 7, 15, 10

Top, Front and Side View

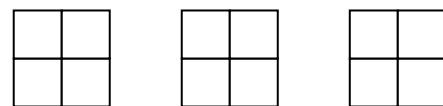
1.



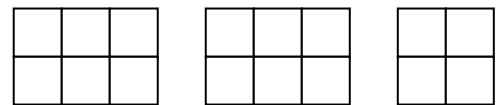
2. a.



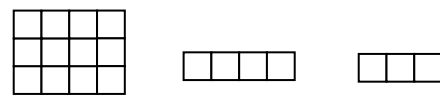
b.



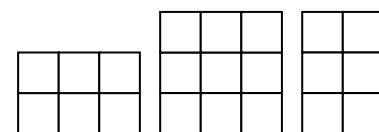
c.



d.

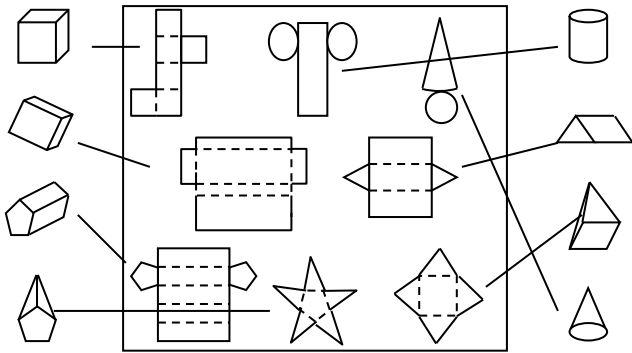


e.



Net of 3D Objects

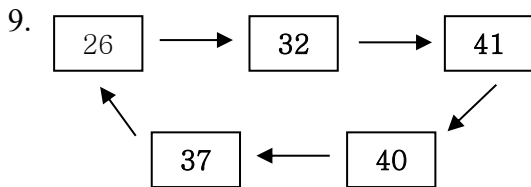
1.



Quick Questions

A.

1. 835
2. 72
3. 35
4. 9
5. $\frac{2}{10}, \frac{4}{10}, \frac{5}{10}, \frac{7}{10}$
6. 0.25
7. \$1.95
8. 11:35



B.

1. triangle
2. rectangle
3. square
4. circle
5. hexagon
6. triangle
7. pentagon
8. octagon

UNIT 10

Constructing Column Graphs

- a. Football, Netball, Cricket
- b. 2
- c. 15

1.

- a. Chips
- b. Sandwiches
- c. 8
- d. Yes
- e. No

2.

Game	Tally	Total
Handball		8
Marbles		7
hopscotch		10
skipping		4
cards		5

Skipping									
Hopscotch									
Marbles									
Handball									
Cards									

3.

- a. i) 40
- ii) 100
- iii) 50
- iv) 10
- b. 330
- c. 70

4.

- a. 10 cm
- b. 15 cm
- c. 30 cm






5. Teacher check

6. a) Game 6
- b) Game 1
- c) Second half

Picture Graphs

1. a) chips, 40
b) sandwiches, 8
c) 20
d) 5
2. a. i) 15
ii) 21
iii) 18
iv) 21
b. 123
3. a. 2003
b. harvest year
c. 600
d. 2300
e. 2002
4. Total (from the top): 29, 24, 36, 28, 24

Stamps for Good Behaviour and Bookwork

Melvir	
Harjit	
Mark	
Jonathan	
Alex	

Quick Questions

- A.
1. 1
 2. 14
 3. 32, 47
 4. 436
 5. 64
 6. 5
 7. 12:45
 8. \$14.41
 9. 1960
 10. 48, 480, 4800, 48000

B.

1. $\frac{2}{10} = \frac{1}{5}$
2. $\frac{2}{10} = \frac{1}{5}$
3. $\frac{1}{10}$
4. $\frac{1}{10}$
5. $\frac{1}{10}$
6. $\frac{1}{10}$

Enrich Maths

ANSWERS

Term 1

YEAR 3

UNIT 1

Problem Solving

- Three- thousand, six hundred and ninety seven
- 80
- 398 pages
- 112, 312
- 2
- 1500
- 9871
- 176
- 8172
- 15

Extension

- 21, 25, 29
- 58, 65, 72
- 25, 31, 37
- 37, 31, 25
- 88, 85, 82
- 19, 21, 28
- 7, 8, 10
- 35, 31, 29
- 43, 36, 32
- $4, 3\frac{1}{2}$, 3

Missing Numbers

- 6, 12, +1
- 9, 7, +3
- 6, 16, ÷2

Original Numbers

- 3
 - 2
 - 6
 - 6
- 8th
 - 10th
 - 2nd
 - 3rd
 - 10th
- 14
 - 14, 18, 22, 26, 30
 - 26
 - 5

UNIT 2

Problem Solving

- 70
- 580
- 902
- 796
- 951
- 919
- 12
- 308
- 28
- 586

Extension

1 a.

	5	3	6	4
2	7	5	8	6
7	12	10	13	11
1	6	4	7	5
8	13	11	14	12

b.

+	4	1	7	8
7	11	8	14	15
12	16	13	19	20
8	12	9	15	16
1	5	2	8	9

c.

+	11	5	8	1
14	25	19	22	15
10	21	15	18	11
7	18	12	15	8
3	14	8	11	4

d.

+	2	9	1	8
7	9	16	8	15
5	7	14	6	13
11	13	20	12	19
3	5	12	4	11

e.

+	12	3	7	9
4	16	7	11	13
8	20	11	15	17
2	14	5	9	11
7	19	10	14	16

f.

+	12	14	7	3
8	20	22	15	11
1	13	15	8	4
5	17	19	12	8
7	19	21	14	10

2. a.

6	11	13	30
12	1	19	32
13	12	12	37
31	24	44	99

b.

12	19	3	34
13	14	4	31
10	7	16	33
35	40	23	98

c.

7	17	8	32
16	3	14	33
12	7	6	25
35	27	28	90

- 3 a. 15 b. 45
 c. 59 d. 70
 e. 74 f. 41

Triangle Pattern

1:

- a. 4, 2, 3
 b. 1, 3, 5
 c. 4, 5, 1
 d. 1, 2, 9
 e. 6, 4, 5
 f. 9, 1, 5
 g. 7, 8, 3
 h. 9, 3, 5

UNIT 3

Problem Solving

- 1 a. 61 km b. 29 km
 c. 60 km d. 92 km
 e. 121 km f. 56 km
2. 366 pages
 3. 90
 4. 88 children
 5. 295 stamps
 6. 249
 7. 188
 8. 98
 9. 19 cm
 10. \$25

Extension

1

$$\begin{array}{r} 7 8 \\ - 2 4 \\ \hline 5 4 \end{array}$$

$$\begin{array}{r} 3 7 9 \\ - 2 2 7 \\ \hline 1 5 2 \end{array}$$

$$\begin{array}{r} 8 7 \\ - 3 4 \\ \hline 5 3 \end{array}$$

$$\begin{array}{r} 4 2 \\ - 3 8 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 3 2 4 \\ - 2 8 6 \\ \hline 3 8 \end{array}$$

$$\begin{array}{r} 4 3 2 \\ - 1 7 9 \\ \hline 2 5 3 \end{array}$$

$$\begin{array}{r} 5 7 \\ - 4 1 \\ \hline 1 6 \end{array}$$

$$\begin{array}{r} 7 2 \\ - 4 4 \\ \hline 2 8 \end{array}$$

$$\begin{array}{r} 3 8 \\ - 1 9 \\ \hline 1 9 \end{array}$$

$$\begin{array}{r} 7 2 7 \\ - 2 4 5 \\ \hline 4 8 2 \end{array}$$

$$\begin{array}{r} 9 7 6 \\ - 5 9 5 \\ \hline 3 8 1 \end{array}$$

$$\begin{array}{r} 3 8 9 \\ - 2 5 5 \\ \hline 1 3 4 \end{array}$$

$$\begin{array}{r} \text{m) } \boxed{7} \ 4 \\ - \ 5 \ \boxed{9} \\ \hline 1 \ 5 \end{array}$$

$$\begin{array}{r} \text{n) } \ 4 \ \boxed{1} \\ - \ \boxed{2} \ 3 \\ \hline 1 \ 8 \end{array}$$

$$\begin{array}{r} \text{o) } \ \boxed{5} \ \boxed{3} \\ - \ 1 \ 6 \\ \hline 3 \ 7 \end{array}$$

2. a.

-	20	13
6	14	7
4	16	9

b.

-	12	7
5	7	2
3	9	4

c.

-	11	5
3	8	2
4	7	1

3. a. 92, 84, 76, 68, 60, 52

b.

Across

1. $42 - 25 = 17$
2. $81 - 56 = 25$
4. $74 - 36 = 38$
5. $63 - 49 = 14$
7. $33 - 19 = 14$
9. $93 - 39 = 54$
12. $80 - 28 = 52$
13. $85 - 38 = 47$

Down

1. $55 - 45 = 10$
2. $75 - 49 = 26$
3. $65 - 37 = 28$
4. $92 - 58 = 34$
6. $83 - 38 = 45$
8. $52 - 37 = 15$
10. $73 - 29 = 44$
11. $70 - 33 = 37$

UNIT 4

Problem Solving

1. 28
2. 48
3. 32
4. 45
5. 84
6. 105
7. 42
8. 160
9. 180
10. 144

Extension

1.

- A. 5, 10, 25, 30, 50
- B. 3, 9, 12, 24
- C. 20, 32, 36, 40
- D. 35, 49, 70
- E. 18, 36, 63, 72, 90
- F. 18, 24, 36

2. (Following the trail)

6, 27, 24, 40, 36, 21, 32, 81, 20, 11, 84, 0, 49, 8, 99, 60, 100

3. a. 3, 2
- b. 10, 9
- c. 7, 8
- d. 6, 7
- e. 8, 4
- f. 7, 3
- g. 6, 4
- h. 5, 3
- i. 5, 4
- j. 4, 3

UNIT 5

Problem Solving

1. 9
2. 63
3. 3
4. 8, 3
5. 10, 3
6. \$12
7. 6, 2
8. 11
9. 7
10. 4

Extension

1.

a.

÷	40	25	60	55	35	10	45	5
5	8	5	12	11	7	2	9	1

b.

÷	14	84	63	56	21	42	28	35
7	2	12	9	8	3	6	4	5

c.

÷	12	36	24	27	18	6	21	30
3	4	12	8	9	6	2	7	10

d.

÷	12	48	36	20	28	16	32	40
4	3	12	9	5	7	4	8	10

e.

÷	72	54	18	24	48	36	42	60
6	12	9	3	4	8	6	7	10

f.

÷	88	56	24	48	16	64	72	32
8	11	7	3	6	2	8	9	4

(rotating clockwise)

g. 6, 13, 2, 7, 8, 10, 3, 9

h. 2, 3, 9, 5, 6, 1, 4, 8

i. 6, 8, 10, 4, 5, 3, 7, 2

2. a) i. 9 ii. 5 iii. 7
- b) i. 2 ii. 5 iii. 6
- c) i. 8 ii. 10 iii. 9
- d) i. 9 ii. 5 iii. 7

3. a. 4

b. 6

c. 3

d. 2

e. 8

f. 7

g. 5

h. 9

i. 5

j. 7

k. 5

l. 10

m. 4

GREAT DIVIDING

UNIT 6

Problem Solving

1. a. 6 b. 3 c. 4
2. 15
3. 40
4. \$90
5. 36
6. 8
7. 2
8. 60
9. 107
10. 33

Extension Level 2

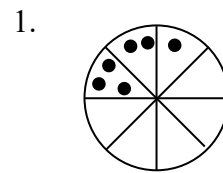
1. a. $\frac{1}{3}$ b. $\frac{2}{5}$ c. $\frac{2}{3}$
 d. $\frac{3}{4}$ e. $\frac{1}{2}$ f. $\frac{2}{5}$
 g. $\frac{1}{5}$ h. $\frac{3}{4}$ i. $\frac{1}{2}$
 j. $\frac{1}{3}$ k. $\frac{1}{5}$ l. $\frac{2}{3}$
2. a) a = j b) b = f c) c = 1
 d) d = h e) e = I f) f = b

Level 3

1. a. $\frac{1}{2}$ b. $\frac{1}{2}$
 c. $\frac{1}{2}$ d. $\frac{1}{4}$
 e. $\frac{1}{2}$ f. $\frac{3}{8}$
 g. $\frac{1}{2}$ h. $\frac{3}{8}$
 i. $\frac{1}{2}$ j. $\frac{5}{8}$

UNIT 7

Problem Solving



2. 3 (12, 24, 36)
3. 44
4. 24

let the number of triangles = x ,

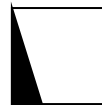
$$x + x + 6 = 42$$

$$2x = 36$$


$$x = 18$$

$$\text{Squares} = 24$$

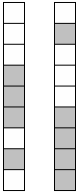
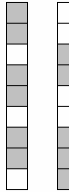
5. 22
6. a. 4
 b. 0
7. $3 + 7 \times (7 - 3) = 31$
8. U
- 9.



Extension

1. 
 a) 17 b) 21 c) 31
2. a) 4 b) 8 c) 12
 d) Add 4 e) 16, 20, 24, 28, 32

Level 3

3. a)  b) 
4. a) 20 b) 28

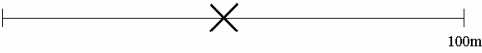

UNIT 8

Problem Solving

1. 48 cm
2. 925 m
3. $\frac{100}{20} + 1 = 51$
4. 24 m
5. 1600 cm = 16 m
6. 10
7. $\frac{180}{2} - 70 = 20\text{ cm}$
8. $\frac{60}{12} = 5\text{ m}$

Extension

Level 2

1. a) 8 cm
b) 7 cm
c) 9 cm
2. 104 m
3. 4 cm
4. 6 cm
5. a) 
b) 

Level 3

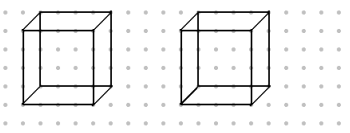
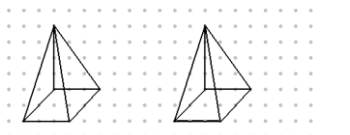
6. a) 28 cm
b) 34 cm
c) 136cm
7. a) 288 m
b) The Hall
c) 640 m
d) 1352 m
e) 272 m

UNIT 9

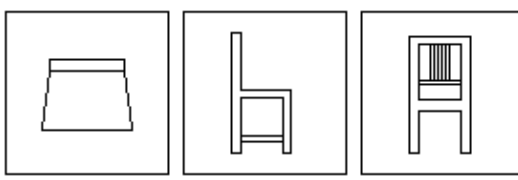
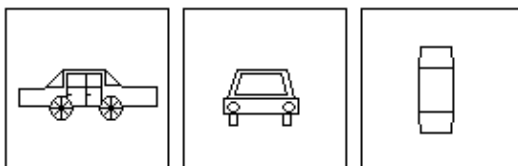
Problem Solving

1. 850 cm²
2. 6
3. 123 m
4. 12
5. 44
6. 24
7. 130
8. 26
 - good tiles = 14
 - total tiles = 8 × 5 = 40
 - tiles to be replaced = 40 – 14 = 26
9. 9 (27 – 18 = 9)
10. 6

Extension

1. a) 
- b) 
2. a) i) 12 ii) 18 iii) 8
b) i) 0 ii) 0 iii) 0

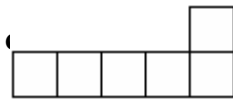
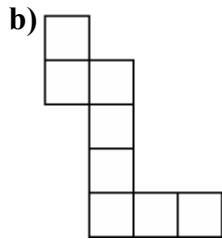
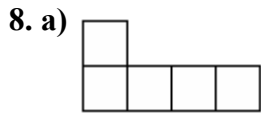
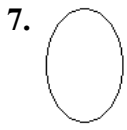
3. Marker check

4. a) 
- b) 

Level 3

5.  Triangular Pyramid

6. prism and cylinder



d) 9

UNIT 10

Problem Solving

- Cruises
 - 22
- Cheese
 - 100
 - $(20 \times 5 + 20 \times 1) + (20 \times 5 + 20 \times 0.5)$
= \$230
- 24
 - Computing
 - 116
 - 6

Extension

Level 2

- 76
 - blue
 - $40 - 10 = 30$
 - 130
- 29°C
 - Saturday, 34°C
 - 3°C
 - Monday and Thursday

Level 3

- Lavender
 - 7
 - 42
- 120
 - $\frac{1}{4}$
 - orange
 - 5
 - teacher mark

Creative Problem Solving

ANSWERS

Term 1

YEAR 3

UNIT 1

Shapes and Fractions

Fraction Shaded	Shape
1 out of 2	Triangle
2 out of 6	Rectangle
4 out of 4	Hexagon
5 out of 8	Square
3 out of 8	Circle

Measurement

- 14
- 15
- 22
- 16
- 20

General Problems

- 48
- \$270
- 5
- 312 weeks
- 120 km
- 2:20pm
- 24
- \$6.90

UNIT 2

Money

- \$17
- \$1 and 50c
- \$7

Writing numbers in words

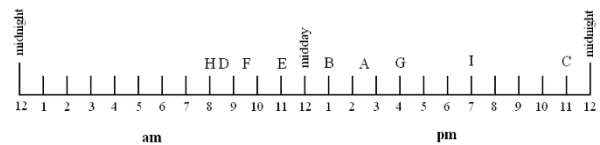
-
- Eight hundred and ninety three
- Three hundred and seventy four
- Nine hundred and sixty two
- One thousand four hundred and sixty seven
- 679
- 444

General Problems

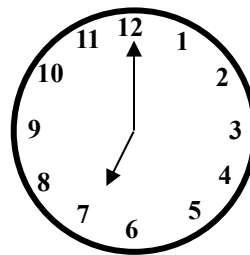
- 14 kg
- 300 m
- \$1346
- 117
- a) 290 b) \$420
- 6

UNIT 3

Timetables



7:00pm



General Problems

- 50
- 4
- 73
- 910
- The 4th of December
- \$18
- \$120
- \$26

UNIT 4

The Cake and Pie Shop

- \$25.10
- \$7.60
- \$22.4

Find the Number

- 57
- 68
- 80 or 84 or 88

General Problems

- 4350 m
- 18
- 110
- 376
- $23 + 21 + 19 + 17 + 15 = 95$
- 168
- 23

UNIT 5

Rotations – Mixed Up

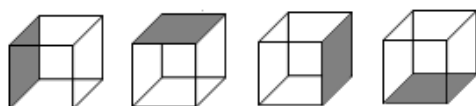
- 1, 4, 3, 2



- 1, 4, 2, 3



- 1, 4, 2, 3



- 1, 4, 2, 3



Pie Charts

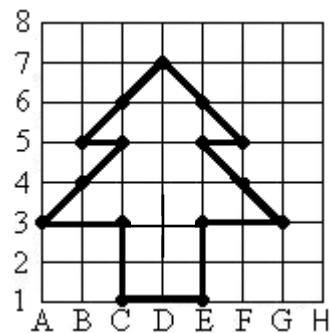
- False
- True
- True
- False
- True

General Problems

- 1060 g
- 9:40 pm
- 806
- 10 022
- \$40
- 30
- $\frac{1}{4}$

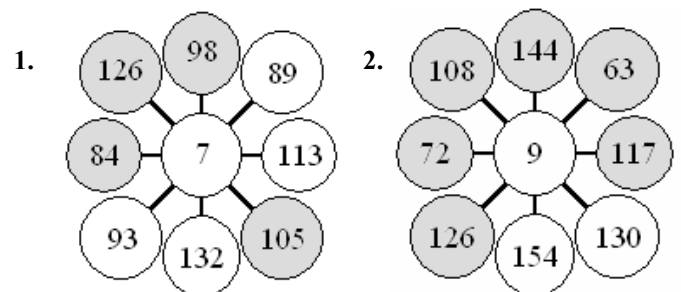
UNIT 6

Co-ordinates

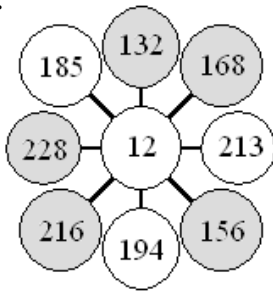


Tree

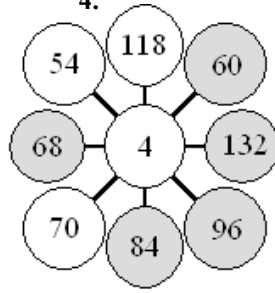
Measurement



3.



4.



General Problems

1. 39
2. \$535
3. 78
4. \$182
5. \$22.4
6. 16
7. 1100 g

UNIT 7

Area

1. 87 cm²
2. 496 cm²
3. 128 cm²

A Balancing Act

1. 24
2. 8
3. 1000

General Problems

1. 73/100
2. 75
3. 24
4. \$5
5. a) \$1722 b) \$1646
6. \$360
7. 5

UNIT 8

Flip it, slide it, turn it

Shape	Flip	Slide	Turn

Marker: Check the rest of the tables

Grids

X		Blue				
	△		■			■
		H		■		
■			■		Red	L

7. 7th square, 3rd row
8. 3rd square, 2nd row

General Problems

1. 8 bags, 3 kg left over
2. 35
3. \$14.80
4. 22 minutes
5. 7
6. \$12
7. 7.5 kg
8. $\frac{4}{10} = \frac{2}{5}$

UNIT 9

Relay Race

1. Team C, 2 minute and 35 seconds
2. Team B, 2 minute and 43 seconds
3. 8 seconds
4. Team B
5. Team B, 11 seconds

General Problems

1. 35L
2. a) 3:12 pm
b) 11:18 pm
c) 5:24 pm
3. 19th
4. Mark - \$15
Brenda - \$10
5. 81
6. 6
7. 4:17
8. 30

UNIT 10

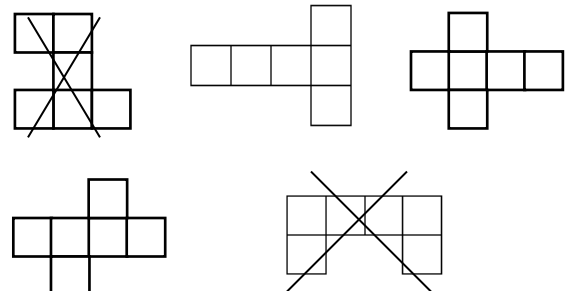
Shape Patterns

1. -
2. 3, 6, 9, 12
adding 3
3. 6, 12, 18, 24
adding 6
4. 5, 10, 15, 20
adding 5

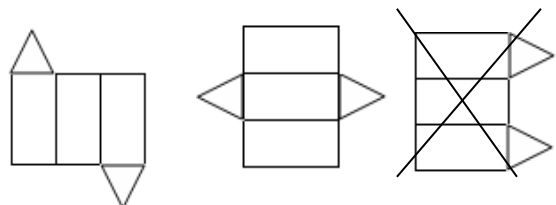
Nets of 3D Shapes

1.

a)

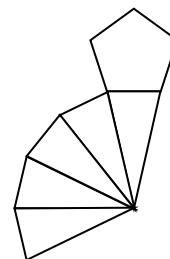


b)



3. Marker: check

4.



General Problems

1. 1050 grapes
2. 24
3. 32
4. \$4.25
5. 50 L, (40 L and 10 L)
6. \$216
7. 7 each and 2 left over
8. 72

Mental Maths

ANSWERS

Term 1

YEAR 3

UNIT 1

Day 1

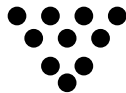
1. a. 513 b. 256
2. 525, 257
3. nine hundred and twenty-one
4. 80
5. a. 206 b. 227
6. 410
7. a. 2400 b. 8621
8. 236, 220, 211, 206
9. a. 200 b. 600
10. 290

Day 2

1. a. 60, 70, 80
b. 108, 118, 128
2. a. 84, 94, 114
b. 102, 72, 62
3. 2722, 2732, 2742, 2752
4. 6371, 6361, 6351, 6341
5. a. 632, 532, 332
b. 625, 425, 325
6. a. 159 b. 357
7. a. 6510 b. 9863
8. a. False b. True
9. a. = b. <
10. 9876

Day 3

1. a. 23, 25, 27
b. 34, 36, 38
2. 41, 36, 31, 26, 21
3. a. 77 b. 65
4. a. 98 b. 73
- 5.

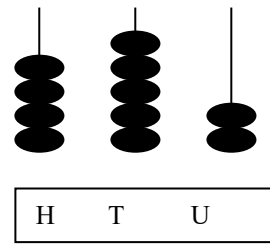


6. Add 3
7. a. 23, 29, 35, 41
b. 10, 8, 6, 4
8. 59, 84, 114
9. 53, 47, 42
10. 108, 123, 141

Day 4

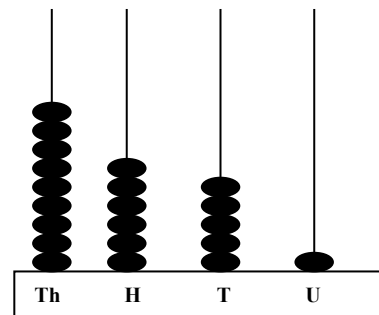
1. $800 + 30 + 5$
2. a. 321 b. 486
3. $700 + 60 + 3$

4.



5. a. 10 b. 600
6. $7000 + 300 + 40 + 1$
7. a. 3244
b. 6572

8.



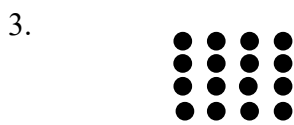
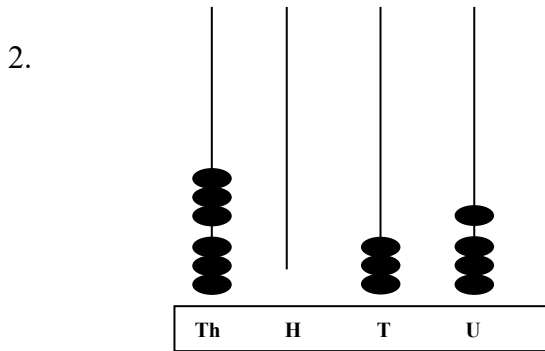
9. a. 6000
b. 40
10. The possibilities are 458, 485, 548, 584, 845, 854 therefore there are 6 possibilities.

Day 5

1. a. 100
b. 120
2. a. 240
b. 380
3. a. 240
b. 360
4. a. 900
b. 400
5. a. 250, 240
b. 200, 171
6. a. 7320
b. 7000
7. a. 10000
b. 10000
8. 1200
9. 500
10. 9000

Day 6

1. a. 8569
b. 9407



4. a) 7000
b) 300

5. 1978, 1988, 1998, 2008, 2018

6. 45, 60, 78

7. a) 5500
b) 5000

8. 8430, 3048

9. 1000

10. 3960

UNIT 2

Day 1

1. 23
2. 39
3. 58
4. 84
5. 79
6. 99
7. 79
8. 29
9. 97
10. 87
11. 57
12. 78
13. 98
14. 86
15. 39
16. 59

Day 2

1. 45
2. 61
3. 110
4. 54
5. 91
6. 90
7. 74
8. 101
9. 50
10. 100
11. 83
12. 139
13. 72
14. 108
15. 134
16. 176

Day 3

1. 444
2. 369
3. 499
4. 849
5. 697
6. 928
7. 479
8. 929
9. 929
10. 366
11. 559
12. 767
13. 968
14. 897
15. 888
16. 776

Day 4

1. 352
2. 593
3. 399
4. 990
5. 691
6. 720
7. 232
8. 247
9. 280
10. 894
11. 681
12. 770
13. 350
14. 723
15. 364
16. 563

Day 5

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. 716 2. 1110 3. 921 4. 1154 5. 421 6. 602 7. 1102 8. 921 | <ol style="list-style-type: none"> 9. 827 10. 485 11. 1105 12. 1314 13. 1998 14. 219 15. 206 |
|---|---|

Day 6

1. 1189
2. 1580
3. 1402
4. 829
5. 1078
6. 1215
7. 1100
8. 1212
9. 287
10. 919
11. 204
12. 888

UNIT 3

Day 1

1. 55
2. 5
3. 14
4. 73
5. 51
6. 42
7. 15
8. 16
9. 22
10. 23
11. 52
12. 1
13. 32
14. 35
15. 63
16. 25

Day 2

1. 7
2. 9
3. 17
4. 9
5. 27
6. 57
7. 7
8. 28
9. 13
10. 9
11. 28
12. 59
13. 38
14. 25
15. 19
16. 49

Day 3

1. 142
2. 182
3. 551
4. 311
5. 241
6. 412
7. 426
8. 123
9. 96
10. \$254

Day 4

1. 125
2. 247
3. 609
4. 35
5. 427
6. 519
7. 18
8. 4, 2, 7
9. 607
10. 4, 3, 6

Day 5

1. 386
2. 77
3. 140
4. 181
5. 375
6. 59
7. 3, 9, 9
8. \$185
9. 2, 9, 7
10. 1, 8, 7

Day 6

1. 527
2. 228
3. 85
4. 192
5. 340
6. 186
7. 5, 6, 4
8. 3, 4, 4
9. 604
10. 284

UNIT 4

Day 1

1. 24
2. 18
3. 22
4. 9
5. 33
6. 12
7. 24
8. 10
9. 14
10. 15
11. 18
12. 16
13. 21
14. 27
15. 36
16. 77

Day 2

1. 26
2. 42
3. 60
4. 36
5. 80
6. 40
7. 115
8. 132
9. 225
10. 112
11. 255
12. 76
13. 315
14. 48
15. 185
16. 234

Day 3

- | | |
|--------|---------|
| 1. 186 | 9. 486 |
| 2. 294 | 10. 828 |
| 3. 222 | 11. 539 |
| 4. 153 | 12. 488 |
| 5. 184 | 13. 441 |
| 6. 360 | 14. 189 |
| 7. 426 | 15. 304 |
| 8. 133 | 16. 252 |

Day 4

1. 28
2. 104
3. 54
4. a 156 b. 147 c. 180
- 5.

	0	1	2	3	4	5	6	7	8	9
7	0	7	14	21	28	35	42	49	56	63
8	0	8	16	24	32	40	48	56	64	72
9	0	9	18	27	36	45	54	63	72	81

6. 99
7. a. 76 b. 175 c. 200
8. 36
9. 84
10. 52

Day 5

1. 112
2. 108
3. a. 152 b. 306 c. 378
4. a. 104 b. 161 c. 216
5. 152
6. 40
7. 336
8. a. 78 b. 156 c. 738
9. 216
10. 324

Day 6

1. 168
2. 361
3. a. 115 b. 423 c. 476
4. a. 273 b. 333 c. 384
5. 180
6. 72
7. 84
8. a. 640 b. 1600 c. 5120
9. 448
10. 50400

UNIT 5**Day 1**

1. 14
2. 12
3. 11
4. 9
5. 12
6. 15
7. 24
8. 41
9. 38
10. 31
11. 18
12. 15
13. 21
14. 23
15. 44
16. 24

Day 2

1. 15
2. 10
3. 7
4. 8
5. 12
6. 27
7. 9
8. 19
9. 19
10. 12
11. 12
12. 15
13. 9
14. 11
15. 13
16. 16

Day 3

- | | |
|-----------|------------|
| 1. 11 r 1 | 9. 14 |
| 2. 41 | 10. 29 |
| 3. 24 | 11. 18 r 3 |
| 4. 16 | 12. 18 r 3 |
| 5. 17 | 13. 11 |
| 6. 11 r 5 | 14. 15 r 1 |
| 7. 20 r 3 | 15. 4 |
| 8. 22 | 16. 12 r 1 |

Day 4

1. 11
2. 3
3. 3
4. 19
5. 21
6. 19
7. 16
8. 21
9. 17
10. 17

Day 5

1. 0
2. 16 r 1
3. 16, 1 spare
4. 5 r 4
5. 3
6. 9
7. \$49
8. 6 r 3
9. 15
10. 27 r 2

Day 6

1. 18
2. 5
3. 1
4. 19, 4 spare
5. 13 Days
6. \$32.00
7. 14
8. 5
9. 15
10. 12

UNIT 6**Day 1**

1. 9 (add 2)
2. 13 (add 1)
3. 6 (add 2)
4. 0 (add 5)
5. 3 (add 3)
6. 105 (add 3)
7. 38 (add 2)
8. 90 (add 5)
9. 42 (add 1)
10. 63 (add 4)

Day 2

1. 70(Subtract 10)
2. 28(Subtract 7)
3. 133(Subtract 4)
4. 47(Subtract 3)
5. 84(Subtract 1)
6. 6(Subtract 5)
7. 23(Subtract 2)
8. 51(Subtract 6)
9. 55(Subtract 9)
10. 202(Subtract 3)

Day 3

1. 2 (Multiplied by 3)
2. 6 (Halved)
3. 10 (Doubled)
4. 24 (Halved)
5. 32 (Doubled)
6. 2 (Divided by 5)
7. 9 (Multiplied by 3)
8. 8 (Doubled)
9. 1 (Divided by 3)
10. 160 (Halved)

Day 4

1. 10 (Add 1 more each time)
2. 41 (Add multiples of 3)
3. 49 (Add double of difference before)
4. 48 (Add multiples of 5)
5. 121 (Add multiples of 2)
6. 1 (Add double of difference before)
7. 9 (Square numbers)
8. 221 (Add double of difference before)
9. 8 (Cubed numbers)
10. 30 (Add ascending add numbers)

Day 5

1. 94 (Subtract increasing multiples of 2)
2. 63(Subtract decreasing multiples of 3)
3. 16 (Square numbers)
4. 49(Odd cube numbers)
5. 1(Even cube numbers)
6. 142(Subtract difference increase by 1)
7. 114 (Subtract difference increase by 1)
8. 25(Subtract decreasing odd numbers)
9. 32(Subtract half of difference before)
10. 57(Subtract multiples of 5)

Day 6

1. 24(Add 3)
2. 25(Add 4)

3. 10(Subtract 6)
4. 113(Subtract 3)
5. 4(Halve)
6. 81(Multiply number before by 3)
7. 2(Add multiples of 5)
8. 26(Add odd numbers)
9. 27(Subtract even numbers)
10. 49(Subtract multiples of 5)

UNIT 7**Day 1**

1. Metres
2. Centimetres
3. Metres
4. Millimetres
5. Metres
6. Metres
7. Metres or centimetres
8. Millimetres
9. Kilometres
10. Kilometres

Day 2

1. 200 cm
2. 1200 cm
3. 7000 cm
4. 50 cm
5. 550 cm
6. 1930 cm
7. 406 cm
8. 1680 cm
9. 6100 cm
10. 300 cm

Day 3

1. 1 m
2. 13 m
3. 6.5 m
4. 490 m
5. 0.5 m
6. 2 m
7. 13 m
8. 49 m
9. $28\frac{1}{2}$ m
10. 29 m

Day 4

1. 70 mm
2. 290 mm
3. 45 mm
4. 1600 mm
5. 5 mm
6. 60 mm
7. 165 mm
8. 228 mm
9. 573 mm
10. 210 mm

Day 5

1. 4 cm
2. 35 cm
3. 806 cm
4. 0.5 cm
5. 2.5 cm
6. 19 cm
7. 34 cm
8. 1017 cm
9. 67.5 cm
10. 560.5 cm

Day 6

1. Metres
2. Centimetres
3. 1150 cm
4. 1000 cm
5. 1.5 m
6. 34.5 m
7. 75 mm
8. 770 mm
9. 5.5 cm
10. 25 cm

UNIT 8

Day 1

1. Square Pyramid
2. Sphere
3. Triangular Prism
4. Cube
5. Triangular Pyramid
6. Cylinder
7. Pentagonal Prism
8. Cone
9. Hexagonal Pyramid
10. Rectangular Prism

Day 2

1. Cone
2. Triangular Pyramid
3. Sphere
4. Pentagonal Pyramid
5. Square Pyramid
6. Cube
7. Hexagonal Prism
8. Pentagonal Prism
9. Triangular Prism
10. Cylinder

Day 3

1. Cone
2. Cube
3. Triangular Pyramid
4. Triangular Prism
5. Square Pyramid
6. Pentagonal Pyramid
7. Cylinder
8. Rectangular Prism or square prism

Day 4

1. Sphere
2. Cone
3. Cylinder
4. Rectangular Prism
5. Cube
6. Square Pyramid
7. Cone
8. Cylinder
9. Sphere
10. Rectangular Prism

Day 5

1. 2 Spheres + 1 Cone
2. 2 Rectangular Prisms
3. 2 Cylinders
4. 1 Cylinder + 1 Rectangular Prism
5. 1 Rectangular Prism + 1 Triangular Prism
6. 1 Cone + 1 Hexagonal Prism

Day 6

1. Hexagonal Prism
2. Pentagonal Pyramid
3. Hexagonal Pyramid
4. Cone
5. Hexagonal Pyramid
6. Cube
7. Cone
8. Rectangular Prism
9. 1 Cylinder + 1 Rectangular Prism
10. 1 Cone + 1 Rectangular Prism

UNIT 9

Day 1

- 43 cm
- July
- 112 cm
- Teacher Mark

Day 2

- 8
- 13
- 2
- Teacher Mark
- 7

Day 3

- 7
- 5
- Teachers mark
- 22

Day 4

- 13
- 19
- 11
- Teachers mark
- 1

Day 5

- 130 mm
- It rained 90 mm less
- 60 mm per week
- Teachers mark
- 65 mm per week

Day 6

- 26
- 6
- $\frac{6}{26} = \frac{3}{13}$
- 6
- $2(14 - 12)$
- Teachers mark
- $\frac{10}{32} = \frac{5}{16}$

UNIT 10

Day 1

- Seconds
- Hours
- Minutes
- Days/weeks
- Years
- Months
- Minutes
- Years
- Minutes/Hours
- Seconds

Day 2

- 5 minutes
- 2 minutes
- $\frac{1}{2}$ Minutes
- 3.5 minutes OR $3\frac{1}{2}$ minutes
- 100 minutes
- 9 minutes
- 19 minutes
- 10 minutes
- 70.5 minutes OR $70\frac{1}{2}$ minutes
- 6.5 minutes OR $6\frac{1}{2}$ minutes

Day 3

- 120 seconds
- 270 seconds
- 600 seconds
- 30 seconds
- 3000 seconds
- 190 seconds
- 530 seconds
- 330 seconds
- 480 seconds
- 602 seconds

Day 4

1. $\frac{1}{2}$ Hour
2. 7 hours
3. 4.5 hours OR $4\frac{1}{2}$ hours
4. 5 hours
5. 1.5 hours OR $1\frac{1}{2}$ hours
6. 17 hours
7. 4.5 hours OR $4\frac{1}{2}$ hours
8. 9.5 hours OR $9\frac{1}{2}$ hours
9. 4 hours
10. 22.5 hours OR $22\frac{1}{2}$ hours

Day 5

1. 120 minutes
2. 330 minutes
3. 600 minutes
4. 30 minutes
5. 660 minutes
6. 434 minutes
7. 69 minutes
8. 378 minutes
9. 672 minutes
10. 62 minutes

Day 6

1. Hours
2. Minutes
3. 4 minutes
4. 6.5 minutes OR $6\frac{1}{2}$ minutes
5. 900 seconds
6. 291 seconds
7. 2.5 hours OR $2\frac{1}{2}$ hours
8. 4.5 hours OR $4\frac{1}{2}$ hours
9. 450 minutes
10. 260 minutes