

YEAR 6 HOMEWORK

ANSWERS – PACK 2

Whilst school is closed, we have planned and designed a variety of tasks for the Year 6 children to complete. The tasks are designed to follow the learning that would have been happening in school, as closely as possible. In addition, we also expect all pupils to read daily, as well as use **TT Rockstars** and **Spelling Shed** to practise their times tables facts and spellings.

Please see answers to each task set for
MATHEMATICS
on the following pages.

If feedback or assistance is needed on specific tasks, please don't hesitate to contact the Year 6 team via

Mrs Fogarty-Slack
sfogarty-slack@hvp.org.uk

YEAR 6 HOMEWORK

Maths: retrieval ANSWERS

1)

Fluency

$$8^2 = 64$$

$$4^2 = 8$$

$$9^3 = 729$$

$$7^3 = 343$$

Fluency

$$0.5 = 50\% = \frac{1}{2}$$

$$0.25 = 25\% = \frac{1}{4}$$

$$0.2 = 40\% = \frac{1}{5}$$

$$0.75 = 75\% = \frac{3}{4}$$

Apply

$$\frac{3}{5} \div 2 =$$

$$\frac{2}{7} \div 4 =$$

$$\frac{2}{3} \div 9 =$$

$$\frac{5}{6} \div 5 =$$

Apply

$$17 \div 100 = 0.17$$

$$6.3 \times 1000 = 6300$$

$$194.5 \div 10 = 19.45$$

$$5.6 \times 100 = 560$$

$$0.28 \times 1000 = 280$$

$$346.01 \times 10 = 3460.1$$

YEAR 6 HOMEWORK

Maths: retrieval ANSWERS

2)

Fluency

= "subtract"

Circle two numbers that have a difference of 230

340 580 250 810 120

$$810 - 580 = 230$$

Fluency

List all the common multiples
of 6 and 7 under 70.

42

Apply

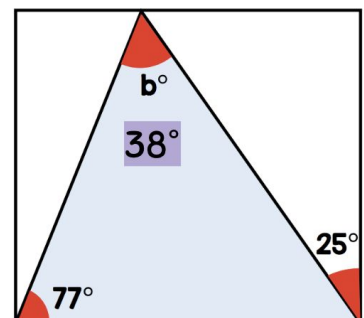
Jamie has to drive 327.3 miles to Wales and then a further 186.9 miles to Devon. During his drive, he stops for a 10 minute break after 293.4 miles. How many more miles will he still need to drive to reach Devon?

$$327.3 \text{ miles} + 186.9 \text{ miles} = 514.2 \text{ miles}$$

$$514.2 \text{ miles} - 293.4 \text{ miles} = 220.8 \text{ miles}$$

Find the size of angle b.

Apply



YEAR 6 HOMEWORK

Maths: retrieval **ANSWERS**

3)

Fluency

$$113.26 - 28.5 = 84.76$$

$$43.55 + 17.23 = 60.78$$

$$157.75 - 25.65 = 132.1$$

Fluency

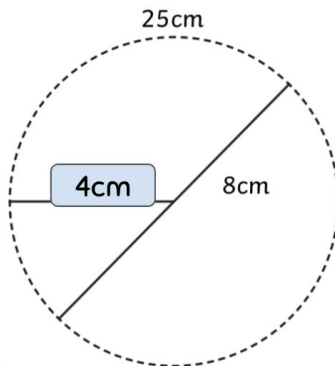
Complete the statements using $<$, $>$ or $=$

60 seconds $=$ 1 hour

10 mm $<$ 10 cm

500 g $=$ 0.5 kg

Apply



$$R = \frac{1}{2} D$$

$$8\text{cm} \div 2 = 4\text{cm}$$

Apply

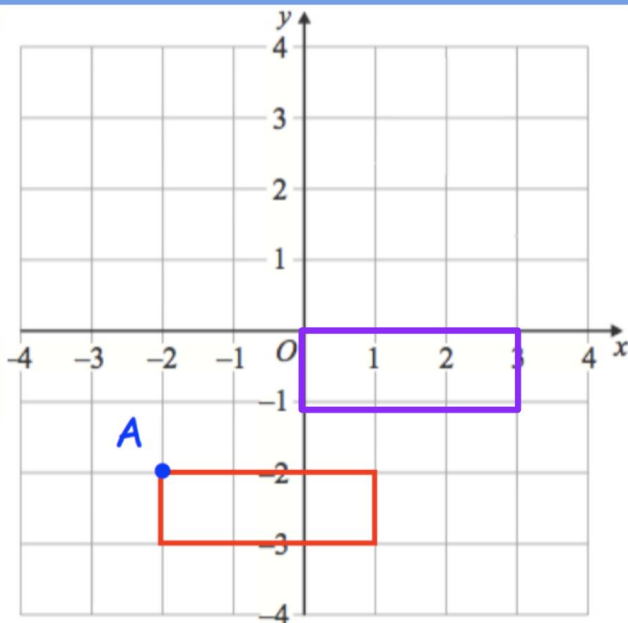
5 miles is approximately equal to 8km.
Eva walk 10 miles, how many kilometres has she walked? **16km**

Teddy walks 4 kilometers, how many miles has he walked? **2.5 miles**

YEAR 6 HOMEWORK

Maths: retrieval ANSWERS

4)



Give the remaining 3 co-ordinates of the rectangle in its new position:

(0,3) (0,-1) (3,-1)

Fluency

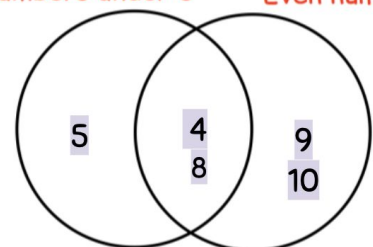
Write the missing values

$$\frac{4}{5} = \frac{12}{15} = \frac{48}{60}$$

Apply

Numbers under 8

Even numbers



YEAR 6 HOMEWORK

Maths: retrieval ANSWERS

5)

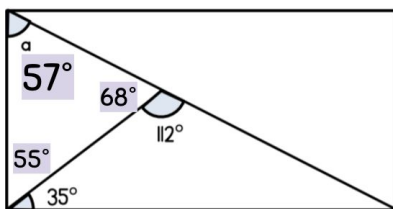
Fluency

$$7\ 205\ 415 = \boxed{2,281,608} + 4\ 923\ 807$$

Here is a rectangle.

Some lines have been drawn inside.

Apply



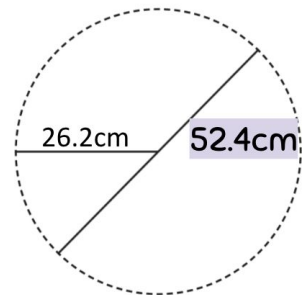
Work out the size of the angle marked a.

Explain your reasoning.

Fluency



What is the relationship between the radius & diameter?



Apply

23 672 more people attended the Star Wars exhibition this year than last year. If 216 479 people went this year, how many people went last year?

$$216,479 - 23,672 = \underline{192,807}$$

YEAR 6 HOMEWORK - ARITHMETIC

Fluent in Five – ANSWERS

Sets of five arithmetic questions – aim to answer each set in five minutes!

Set A

$$A. 294 + 70 = 364 \text{ (M)}$$

$$B. 4,697 + 2,534 = 7,231 \text{ (W)}$$

$$C. 3 \times 8 = 24 \text{ (M)}$$

$$D. 564 \times 8 = 4,512 \text{ (W)}$$

$$E. 80 \times 5 = 400 \text{ (M)}$$

Set B

$$A. 377 + 40 = 417 \text{ (M)}$$

$$B. 80 \times 9 = 720 \text{ (M)}$$

$$C. 8,327 + 14,895 = 23,222 \text{ (W)}$$

$$D. \frac{1}{4} \text{ of } 36 = 9 \text{ (M)}$$

$$E. 73,294 + 79,569 = 152,863 \text{ (W)}$$

YEAR 6 HOMEWORK - ARITHMETIC

Fluent in Five – ANSWERS

Sets of five arithmetic questions – aim to answer each set in five minutes!

Set C

$$A. 867 + 300 = 1,167 \text{ (M)}$$

$$B. 1,616 \div 8 = 202 \text{ (W)}$$

$$C. \frac{1}{8} \text{ of } 32 = 4 \text{ (M)}$$

$$D. 67 \times 8 = 536 \text{ (W)}$$

$$E. 6.54 \times 10 = 65.4 \text{ (M)}$$

Set D

$$A. \frac{1}{3} \text{ of } 84 = 28 \text{ (M)}$$

$$B. 7,684 \div 8 = 960 \text{ r } 4 \text{ or } 960.5 \text{ or } 960\frac{1}{2} \text{ (W)}$$

$$C. 8.761 \times 10 = 87.61 \text{ (M)}$$

$$D. 206 \times 8 = 1,648 \text{ (W)}$$

$$E. 600 + 573 = 1,173 \text{ (M)}$$

YEAR 6 HOMEWORK - ARITHMETIC

Fluent in Five **ANSWERS**

Sets of five arithmetic questions – aim to answer each set in five minutes!

Set E

$$A. 10 \times 17.65 = 176.5 \text{ (M)}$$

$$B. 947 \times 8 = 7,576 \text{ (W)}$$

$$C. 974 + 70 = 1,044 \text{ (M)}$$

$$D. 6,764 + 5,693 = 12,457 \text{ (W)}$$

$$E. \frac{1}{12} \text{ of } 144 = 12 \text{ (M)}$$

Set F

$$A. \frac{10}{12} - \frac{1}{12} = \frac{9}{12} \text{ or } \frac{3}{4} \text{ (M)}$$

$$B. 87,431 - 2,588 = 84,843 \text{ (W)}$$

$$C. 901 + 901 = 1,802 \text{ (M)}$$

$$D. 120 \div 20 = 6 \text{ (M)}$$

$$E. 1,518 \div 6 = 253 \text{ (W)}$$

YEAR 6 HOMEWORK - REASONING

Complete each problem, showing full workings.

1

Freddie's Fairground has 4,568 visitors on Friday, 10,832 visitors on Saturday and 6,789 visitors on Sunday.

How many visitors did Freddie's Fairground have **altogether** between Friday and Sunday?

22,189

2

$\times 10$

$\times 100$

$\div 10$

$\div 100$

$\div 1000$

Choose from the cards above to complete the calculations. You won't need to use them all.

$$4,594 \quad \div 100 = 45.94$$

$$33,832 \quad \times 10 = 338,320$$

$$54.3 \quad \times 100 = 5,430$$

$$432.4 \quad \div 10 = 43.24$$

3

Circle the prime numbers below.

1

2

4

15

19

23

242

YEAR 6 HOMEWORK - REASONING

Complete each problem, showing full workings.

1

Josh has drawn a square. Each side is 7.5cm.

What is the perimeter of the square?

30 cm

2

Correctly identified that:

BOTH the hundreds place has the digit 9 in it, and this means that the number needs to be rounded up
AND

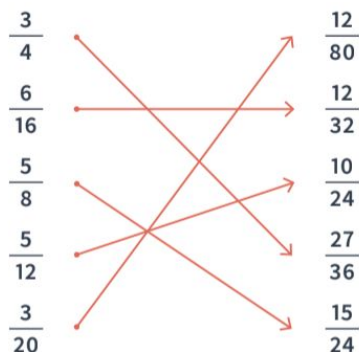
as the thousands place has a digit 9 in it, rounding up the thousands place requires the value of the ten thousands place to change (ie. from 4 to 5)

Example answer:

There is a 9 in the hundreds place that means we need to round the number up. Because the thousands place has a digit 9 in it, it also means we need to change the value of the ten thousands place.

3

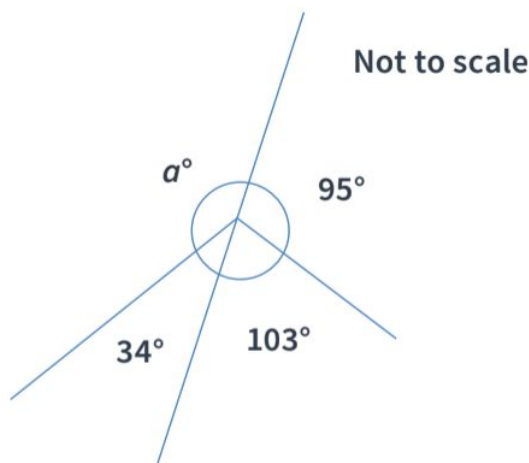
Draw lines between the fractions that are equivalent.



YEAR 6 HOMEWORK - REASONING

Complete each problem, showing full workings.

7



What is the value of angle a ?

Angle $a =$

128

°

HINT: How many degrees are there in a full turn?
How could you use this to help you?

8

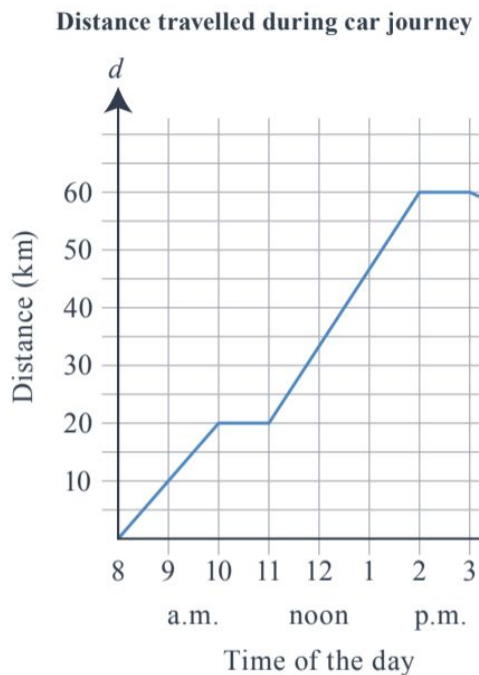
Complete the table below.

	Rounded to the nearest ten	Rounded to the nearest thousand
496,609	496,610	497,000
4,768,499	4,768,500	4,768,000
895	900	1,000

HINT: When rounding...
Find your place
Look next door
0-4 Hit the floor
5-9 Climb the vine

YEAR 6 HOMEWORK - REASONING

Complete each problem, showing full workings.



9a

How far had the car travelled by 1pm?

45

km

9b

The car doesn't move during two periods of the day.

Between which two periods of time does the car not move?

10am

to

11am

2pm

to

3pm

YEAR 6 HOMEWORK - REASONING

Complete each problem, showing full workings.

10

Evie has these digit cards:

4	5	0	8	2	3
---	---	---	---	---	---

She makes them into a six-digit number.

- It is larger than 300,000 but smaller than 400,000.
- It has four tens but no thousands.
- It has twice as many ten thousands and tens.
- The digit in the ones place is smaller than the digit in the tens place.

What number has Evie been thinking of?

3 8 0 5 4 2

YEAR 6 HOMEWORK - MATHS SKILL

Time

Knowledge

Complete the remaining time facts:

There are 7 **days** in one week.

There are 52 **weeks** in one year.

There are 12 **months** in one year.

There are 10 **years** in one decade.

There are 100 **years** in one century.

There are 1000 **years** in one millennium.

YEAR 6 HOMEWORK - MATHS SKILL

Time

What is seven years and eleven months in months alone?

95 months

Convert 86 days into weeks and days.

12 weeks 2 days

How many days in 18 weeks and 5 days?

131 days

What is 513 minutes in hours and minutes?

8 hours 55 minutes

What is 3 hours and 14 minutes in minutes alone?

194 minutes

How many seconds in 5 minutes and 37 seconds?

337 seconds

Re-write three hundred and eighty-six minutes in hours and minutes.

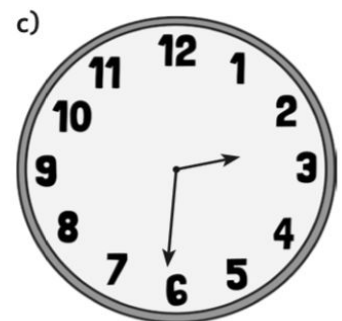
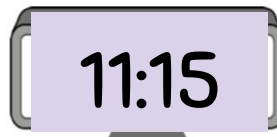
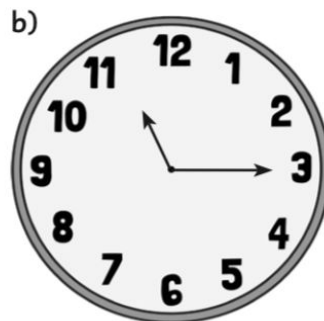
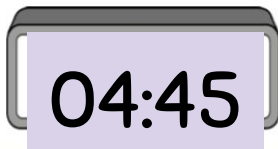
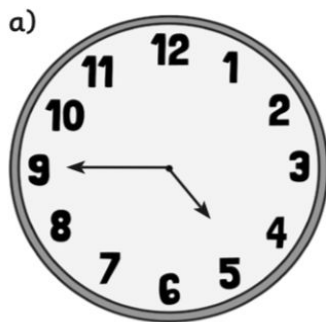
6 hours 43 minutes

YEAR 6 HOMEWORK - MATHS SKILL

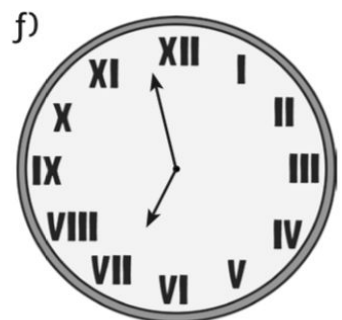
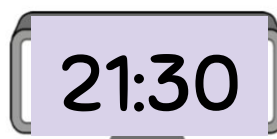
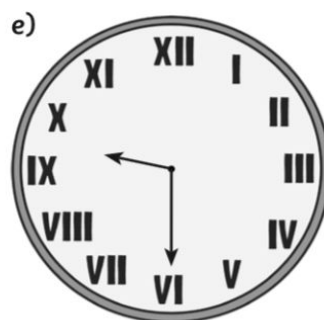
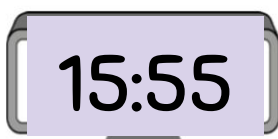
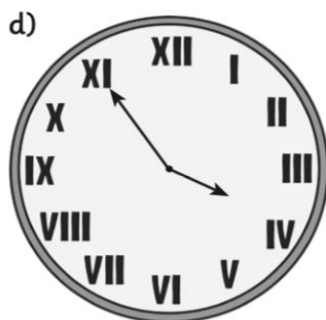
Skill practise: Time


1. Convert the following times on these analogue clocks to digital time on a 24-hour clock.

These times are in the morning:



These times are in the afternoon:





YEAR 6 HOMEWORK - MATHS SKILL

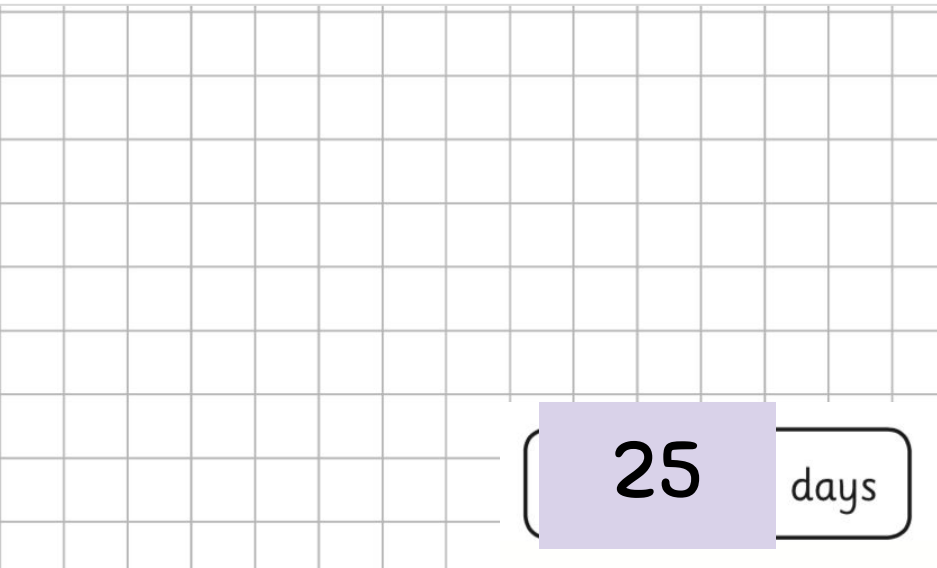
Apply: Time

October						
Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

November						
Mo	Tu	We	Th	Fr	Sa	Su
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9

The date is October 23rd. Keziah's birthday is shown on the calendar.

How many days until her birthday?



25 days



YEAR 6 HOMEWORK - MATHS SKILL

Apply: Time

School begins at 8.45 am and ends at 3.20 pm each day.
Calculate how long is the school day in hours and minutes.

6 hours 35 minutes

YEAR 6 HOMEWORK

ANSWER PACKS

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LOL WRITING
on the following pages.

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YEAR 6 HOMEWORK

GPS Skill: Proofreading

Activity One

Type of mistake: words missing.

Russell groaned **as** his mum shouted up the stairs; "Russell, get up now or you'll be late – again!"

"Riiiiiight." he called back wearily. "It's always the same," he thought "just when you were warm, comfy and having a fabulous dre – what was that?" Russell's train of thought was interrupted by a small figure running along the top of the skirting boards. It was only there for a second, but he was sure he'd seen **it**. Russell shook his head in an effort to 'reboot' his vision. But no, there it was again, this time climbing up the leg **of** his desk. A small person, no more than six inches high, scaling the telegraph pole upright.

Russell felt no fear, only curiosity. It occurred to him that maybe he was a) dreaming or b) going slightly mad but he decided that having an imp or a pixie in his room was far more interesting than getting dressed, whatever the reason for its appearance. He approached slowly, much like when he was trying to catch his rabbit to put it to bed, "Mustn't spook it." He whispered **to** himself.

"Oi, who are you calling it?" said a tiny voice.

YEAR 6 HOMEWORK

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YEAR 6 HOMEWORK

GPS Skill: Proofreading

Activity Two

Type of mistake: spelling including homophones and commonly misspelled words.

He wasn't exactly dressed like an elf, come to think of it. The boy (Russell was fairly sure this was a boy now) had thick, dark hair which he wore long and free, 'Like a girl.' Russell thought. He wore an all-in-one suit made out of what seemed to be a flexible, smooth tweed. Russell wondered if it was itchy. He had a utility belt holding tiny tools; a hammer, pliers, a screwdriver and a quantity of wire ties. All perfect, miniscule replicas of familiar items in Russell's dad's tool box. On his back was a rucksack with, Russell presumed, his climbing gear inside it. On his feet were a pair of chocolate brown boots which looked like leather gloves, but for feet. There was a separate section for each toe. "Five toes though," Russell noted, "same as me." The eyes that were now looking at Russell expectantly were deep brown, almost black and the elf's skin was shiny, soft looking and a deep mahogany colour.

YEAR 6 HOMEWORK

GPS Skill: Proofreading

Activity Three

Type of mistake: apostrophes missing.

Russell blanched for a moment. "I, I'm so sorry," he stammered. "I didnt mean to offend, it's just I've never seen an elf before." At this, the little person (Russell had not yet decided if it was male or female) guffawed with laughter.

"An elf? An elf? That's rich coming from a giant!! I'm no elf, I'm a human."

"But so am I!" exclaimed Russell. He was in quite a state of excitement. This was the best Monday morning he'd had in years. "I'm a human being for definite. So how can you be one as well?"

The elf looked at him disdainfully, "Oh yes, well if you're human, why are you so massive? It's well known that earth's gravity would prevent anyone from growing as tall as you and it's far more efficient to be my size; regular human size."

Russell was baffled. First of all, he was taken aback that he had a six inch visitor, then to be told that six inches was 'regular size' and he was a giant; that took some digesting. Then there was the suggestion that he didn't live on Earth. After all, there was apparently a problem with gravity. This was a lot to take in first thing on a Monday morning.

"Why don't you come down from that table leg and we'll talk properly?" he said eventually "Would you like me to help you?"

"Certainly not!" said the elf. "I'm one of the best climbers of my generation, I can perfectly well get down myself thanks."

And with that, the tiny human began to let out some rope and abseil back down the leg of the desk. He soon trotted across the carpet and Russell sat down on the floor in order to look at him properly.

YEAR 6 HOMEWORK

ANSWER PACKS

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READING
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YEAR 6 HOMEWORK - Reading

'First News' comprehension questions – ANSWERS



- 1) He is encouraging children stuck at home to develop new skills.
- 2) To cheer up passers-by.
- 3) A vaccine is a substance that helps the body to recognise and kill off viruses or bacteria, keeping us safe from the diseases they cause. Scientists in various countries are working to urgently find a vaccine to protect the most vulnerable from Coronavirus.
- 4) A man proposed to his girlfriend after they had to cancel their holiday to Iceland, – the country!
- 5) 100,000 people
- 6) Automatic Tea-Making apparatus

- 7) "That's the aim: getting together, feeling good and connecting."
- 8) Have enough pet food and medication; spend more time with them; go outside; wash your hands after playing with them; do not share food with pets.
- 9) 'Do You Know Me?' and 'Can You See Me?'
- 10) Missouri, America – in a baking company

YEAR 6 HOMEWORK - Reading

Thomas Edison Answers

1. According to the text, name 3 things that Edison invented.

The light bulb, the phonograph, the telephone receiver and the microphone

2. Look at paragraph 1. What does the word 'influential' tell you about Edison?

That he and his work has had an effect on others. (or similar answer)

3. Look at paragraph 1. What word tells the reader that effect of the light bulb invention was impressive?

dramatic

4. Using information from the text, tick one box in each row to show whether each statement in a fact or an opinion.

	fact	opinion
Edison's achievements were impressive.		✓
Edison's mother was an excellent teacher.		✓
The invention factory was in Menlo Park.	✓	
Edison died in 1931.	✓	

5. Complete the table by listing two people, other than Edison, who are mentioned in the biography and what they did..

Person	What they did:
1. Nancy Edision	<i>Educated her son Removed him from school</i>
2. His Teacher	<i>Called Edison stupid</i>
3. Alexandra Graham Bell	<i>Invented the telephone</i>

YEAR 6 HOMEWORK - Reading

Thomas Edison Answers

6. Number the facts from 1–6 in the order in which they happened. The first one has been done for you.

Edison was born in 1947

1

Edison set up the invention factory.

3

Edison invented a light bulb.

5

Edison was chosen to be a member of the Hall of Fame for Great Americans

6

Edison was taken out of his school by his mother.

2

Edison invented the phonograph.

4

7. Look at the final paragraph. Tick the word closest in meaning to 'eminent' as it is used in the text.

passionate ☐

respected ☒

intelligent ☐

unrelenting ☐

8. Look at the paragraph starting 'Before he died...' Find and copy the word closest in meaning to 'suitably'.

Fittingly

9. Explain why, using evidence, Nancy Edison chose to home school her son instead of sending him to school.

Because his teacher thought Edison wasn't very intelligent, referring to him as 'addled'. Nancy believe the only way for him to succeed was for her to school him at home where she could nurture him and allow him to follow his interests (or similar).

YEAR 6 HOMEWORK - Reading

Thomas Edison Answers

10. Explain why, using evidence, it is surprising that Edison was so successful.

An answer which comments on him leaving school at a young age and how people wouldn't expect someone with so little education to have the knowledge to be such a successful inventor.

11. What impression do you get of Nancy Edison from the text? Explain why.

- She is a strong woman because stood up to his teacher, taught him on her own and was brave enough to do what she thought was right
- She disagreed with his teacher because she removed him from school and taught him at home and was furious with his teacher for suggesting her son was stupid.
- She was a good teacher because Edison received most of his education from her and he grew up to be an influential inventor.
- Any other relevant point that is backed up with evidence from the text

Lightning War Answers

Confusion reigns as he opens his eyes to a darkened world of panic.

Explain why ***confusion reigns***.

Award **one** mark for reference to any of the following acceptable points:

- because confusion is the only thing his mind is able to experience
- because the character's confusion takes precedence over every other emotion
- because the confusion the character experiences is what is driving all of his actions

1

Content Domain: 2d To make inferences from the text/explain and justify inferences with evidence from the text.

Award one mark for any acceptable point.

Find and copy two different words from the second verse of the poem which explain the movements made by the main character.

Award **one** mark for any two of these words taken directly from the text:

- stumbles
- fumbling
- shaking
- feeling

1

Content Domain: 2a To give/explain the meaning of words in context.

Award one mark only for any two correct answers.

feeling his way through unlit passages

Explain why it would be necessary for the main character to ***feel his way***.

Award one mark for reference to any of the following acceptable points:

- because the character could not put the lights on and reveal his location to the planes
- because the house was so dimly lit that it would be impossible to find your way out by sight
- because people were not allowed to use lights within their home during blackout hours
- because the urgency to leave was so great that he did not have time to source a light

1

Content Domain: 2d To make inferences from the text/explain and justify inferences with evidence from the text.

Award one mark for any acceptable point.

their wings outstretched like a flock of pale crosses in the dark.

Why do you think that the poet chose to use the word ***flock***?

Award **one** mark for reference to any of the following acceptable points:

- Because a group of flying birds is called a flock and the planes look like birds flying in the night sky
- To show how similar the group of planes look to a group of birds
- As a collective term for the plane which plays on their similarity to birds
- Because both planes and birds have wings and both can fly in groups across the sky

1

Content Domain: 2g To identify/explain how meaning is enhanced through choice of words and phrases.

Award one mark for appropriate reference to any of the given points.

Lightning War Answers

List **three** examples of buildings destroyed by bombing in the poem.

Award **one** mark for any three of the following acceptable answers:

- houses
- shops
- schools
- churches

Do not accept spires.

1

Content Domain: 2b To retrieve and record information/identify key details from fiction and non-fiction.

Secondary Content Domain: 2d To make inferences from the text/explain and justify inferences with evidence from the text.

Award one mark for any three correct answers.

The main character's wellbeing changes throughout this poem.

Find and copy a phrase from the poem where this occurs.

Award one mark for any one of these phrases taken directly from the text:

- he falls into a tangle of rubble and iron bars
- pain surging
- sounds suddenly muted from his ears
- smoke stings his eyes
- staggering over fallen spires
- his legs give way
- he regains his senses
- his hearing returns
- for now, he is safe

1

Content Domain: 2f To identify/explain how information/narrative content is related and contributes to meaning as a whole.

Award one mark for any acceptable point.

Comment on how their wellbeing changes throughout the text.

Award 1 mark for answers that refer to both his wellbeing at the beginning and at the end of the poem.

- **Beginning:** Accept appropriate synonyms for: confused / panic-stricken / in danger
- **End:** Accept appropriate synonyms for: recovering / safe / cared for

1

Content Domain: 2h To make comparisons within the text.

Secondary Content Domain: 2d To make inferences from the text/explain and justify inferences with evidence from the text.

Award one mark for an explanation that refers to a change in the main character's wellbeing from the beginning to the end of the poem.

He feels himself being hauled up

Which word is closest in meaning to ***hauled***? Tick **one**.

bellowed

dragged ✓

confined

halted

1

Content Domain: 2a To give/explain the meaning of words in context.

Award one mark for: dragged

YEAR 6 HOMEWORK - Reading

Lightning War Answers

Which of the following would be the most suitable summary of how the poet feels about life during the war? Tick **one**.

The poet has done a lot of research about life during the war.

The poet highlights the dangers for ordinary people during the war. ✓

The poet reflects on staying safe during wartime bombing.

The poet retells a nightmare they have had about the war.

1

Content Domain: 2c To summarise main ideas from more than one paragraph.

Award one mark for: The poet highlights the dangers for ordinary people during the war.

Using information from the poem, put a tick in the correct box to show whether each statement is **true** or **false**.

Award **one** mark for 3 boxes correctly ticked and award **two** marks for all 4 boxes correctly ticked.

Up to
2

Content Domain: 2b To retrieve and record information/identify key details from fiction and non-fiction.

Award two marks for **all** boxes ticked correctly.

Award one mark for **three** boxes ticked correctly.

Sentence	True	False
The once distant engines begin to get closer.	✓	
Individuals shelter from the bombs within their own homes.		✓
The main character rescues a warden from within the rubble.		✓
The shock of the explosion leaves the warden unable to speak.		✓

YEAR 6 HOMEWORK - Reading

1) Find and copy a group of words that shows us how Mr Bell felt when he saw the umbrella.

His heart leapt

2) Look at the paragraph beginning 'The wind led him towards the park'.

What does the statement 'wide-eyed' suggest about how Mr Bell is feeling at that point?

The phrase 'wide-eyed' suggests that Mr Bell is surprised at the lion's movement.

3) '*Mr Bell tried again to walk into the path of the determined gale.*'
What does the phrase 'determined gale' suggest about the wind?

- The wind is unlikely to stop
- The wind is powerful
- The wind is difficult to pass

4) '*It was a cloudy night; the darkness covered the city like a thick blanket. The wind blew gusts of air smelling of car fumes through the streets; it sneaked under the cracks of doors and whispered down sooty chimneys.*'

List two examples of figurative language are used in this paragraph.

1. Darkness covered the city like a thick blanket
2. It sneaked under the cracks of doors
3. It whispered down sooty chimneys.

5) What does Mr Bell pat on the head?

One of the bronze lion statues

YEAR 6 HOMEWORK - Reading

Answers

12 Imagine you are a witch or wizard making a magic potion with
15 this fun activity.

16 **Materials:**

20 • Small containers (test-tubes / pots)

23 • Pipettes or spoons

25 • Bicarbonate Soda

26 • Vinegar

30 • Food colouring / glitter (optional)

31 **Method:**

39 1. If you are using food colouring or glitter,
44 add it into the container.

51 2. Pour in the vinegar, approximately filling to
57 the half-way point of the container.

65 3. Using a spoon, sprinkle in the bicarbonate soda.

73 4. Watch the 'magic' potion fizz, pop and bubble.

75 **The Science:**

83 Fizzing will happen because a neutralisation reaction occurs
93 between the acidic vinegar and the alkaline bicarbonate of soda,
96 releasing carbon dioxide.

97 **Extension Ideas:**

109 Try adding a little washing up liquid as this should thicken the
118 bubbles, or experiment with different colours and amounts of
123 bicarbonate of soda and vinegar.



10 We had been learning about space in school and our
19 teacher had told us about the expected Perseid meteor
29 shower. I managed to convince my mum that I 'needed'
40 to stay up to watch it, so we converted my trampoline
50 into a viewing station, with warm blankets, flasks of hot
59 chocolate, my binoculars, a torch and notebook and pen
63 (to record our sightings).

73 Although it had been drizzling most of the week, the
80 sky cleared that evening! Excitement bubbled inside
92 me like a lava lamp and I got cosy, lying back, staring
104 at the vast, inky sky. As my eyes adjusted, I began to
113 see more sparkling stars. Suddenly, I spotted my first
123 meteor, closely followed by another. It was going to be
126 an amazing evening...



1. Which ingredient must be added to the potion first?

Accept: Vinegar.



2. Find and copy a modal verb.
Accept 'will' or 'should'.



3. Why are food colouring and glitter 'optional'?
Accept an explanation that the glitter and colouring are not needed for the reaction to occur (as explained in 'The Science' section, so it is your choice whether you use them to enhance the look of the 'potion').



4. How does the layout help the reader?
Accept any explanation that this is an experiment so the instructions make it clear to the reader what is needed first, followed by the numbered steps to complete it.



5. In the final step, why does the author use inverted commas around the word 'magic'?
Accept any answer that refers to the use of sarcasm or the facts that the author is showing that the potion is not really magic.

Answers



1. Find three words that are linked to 'seeing something'?

Accept any of: watch, viewing, sightings, staring, see, spotted



2. Where does the child watch the meteor shower?
From their trampoline



3. Will it be 'an amazing evening'? Why do you think this?
Accept any reasonable answer linking to the text, e.g. yes because they have already seen two meteors very quickly so will see lots more or no, because it was raining most of the week so the weather will change again.



4. Why does the author put 'needed' in inverted commas?
Accept an explanation that describes their need due to their interest in space and having been learning about it in school. The inverted commas suggest that the child is pleading with their mum.