

YEAR 6 HOMEWORK

ANSWERS – PACK 4

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 - ARITHMETIC

Fluent in Five

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

Set A

$$A. 60 \times 3 =$$

$$B. 17,456 - 4,737 =$$

$$C. 9 + 7 + 8 =$$

$$D. 7 \times ? = 0$$

$$E. 76,328 + 484,313 =$$

$$A. 60 \times 3 = 180 \text{ (M)}$$

$$B. 17,456 - 4,737 = 12,719 \text{ (W)}$$

$$C. 9 + 7 + 8 = 24 \text{ (M)}$$

$$D. 7 \times 0 = 0 \text{ (M)}$$

$$E. 76,328 + 484,313 = 560,641 \text{ (W)}$$

YEAR 6 HOMEWORK - ARITHMETIC

Fluent in Five

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Set B

1. $8,874 \times \mathbf{1} = 8,874$ (M)

2. $1,518 \div 6 = \mathbf{253}$ (W)

3. $87.3 \div 10 = \mathbf{8.73}$ (M)

4. $41 + 30 = \mathbf{71}$ (M)

5. $83,328 - 76,397 = \mathbf{6,931}$ (W)

YEAR 6 HOMEWORK - ARITHMETIC

Fluent in Five

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

Set C

1. $6.94 \times 10 = \mathbf{69.4}$ (M)

2. $374 \times 7 = \mathbf{2,618}$ (W)

3. $765 + 700 = \mathbf{1,465}$ (M)

4. $4 + 9 + 1 = \mathbf{14}$ (M)

5. $432 \div 7 = \mathbf{61 \text{ r } 5}$ or $\mathbf{61 \frac{5}{7}}$ (W)

YEAR 6 HOMEWORK - ARITHMETIC

Fluent in Five

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

Set D

1. $\frac{2}{5}$ of 90 = **36** (M)

2. $48.3 \div 100 = \mathbf{0.483}$ (M)

3. $67 \times 32 = \mathbf{2,144}$ (W)

4. $80 - 28 = \mathbf{52}$ (M)

5. $12,384 + 15,843 = \mathbf{28,227}$ (W)

YEAR 6 HOMEWORK - ARITHMETIC

Set E Match the equivalent decimals, percentages and fractions.

Match the following decimal numbers, percentages and fractions.

Diagram illustrating connections between decimal, percentage, and fraction forms of $\frac{1}{2}$.

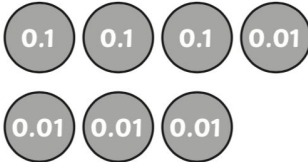
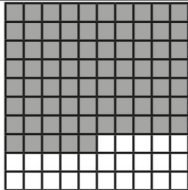
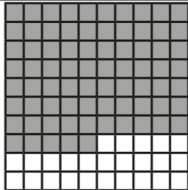

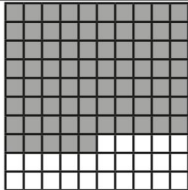

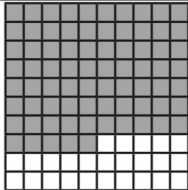
Left Diagram (Connections to $\frac{1}{2}$):

- 0.3 connects to 30%
- 0.5 connects to 50%
- 0.4 connects to 40%
- 0.7 connects to 70%
- 0.9 connects to 90%
- 0.2 connects to 20%

Right Diagram (Connections to $\frac{1}{2}$):

- 0.25 connects to 25%
- 0.375 connects to 37.5%
- 0.75 connects to 75%
- 0.5 connects to 50%
- 0.125 connects to 12.5%
- 0.875 connects to 87.5%

Fill in the missing equivalent decimals, percentages and fractions.

Fraction in Its Simplest Form	Decimal	Percentage
$\frac{17}{50}$		34% 
$\frac{3}{4}$	0.75	
	0.2	20% 
$\frac{1}{100}$		1% 

YEAR 6 HOMEWORK - REASONING

Answer each calculation fully, showing all workings.

1

A number has been rounded to the nearest million,
giving 3,000,000

Which of these could not be the number?

A

2,561,000

B

3,621,300

C

2,873,033

D

3,476,958

2

Matthew runs 18,689 metres.

Round this to the nearest km.

A

18km

B

18,000km

C

19km

D

18.6 m

YEAR 6 HOMEWORK - REASONING

Answer each calculation fully, showing all workings.

3

Is it always, sometimes or never true that 5% of 100 is the same as 100% of 5?

A

Always

B

Sometimes

C

Never

D

Cannot tell

4

A family is travelling 784 miles.
Every time they travel 140 miles they stop.
They have stopped 4 times.
How far have they got left to travel?

A

644 miles

B

224 miles

C

220 miles

D

560 miles

YEAR 6 HOMEWORK - REASONING

Answer each calculation fully, showing all workings.

5

Mia pays with a £20 note and gets £1 change.
What could she have bought?



A

5 packs of buns
and 3 cakes

B

3 cakes and 4
packs of buns

C

1 cake and 8 packs
of buns

D

A and C

6

There are 27,400 people at a concert.
8,340 are standing, 12,790 are in the lower tier seating.
The rest of the people are in the upper tier.

How many people are in the upper tier?

A

22.950

B

6,270

C

17,450

D

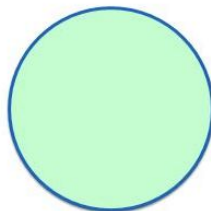
17,781

YEAR 6 HOMEWORK - REASONING

Answer each calculation fully, showing all workings.

6

Which of the following **does not** have at least 4 lines of symmetry?



7

Five pints is approximately 3000 ml.

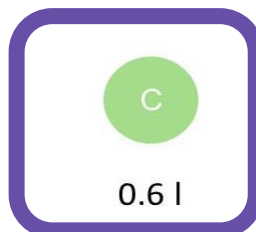
Approximately how many litres are in one pint?



15 l



3 l



0.6 l



600 ml

YEAR 6 HOMEWORK - REASONING

Answer each calculation fully, showing all workings.

8

Which is the odd one out?

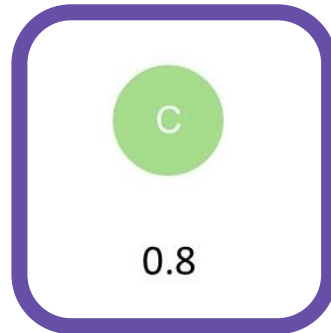
Why?



8%



$\frac{2}{25}$



0.8



0.08

A, B and D are equivalent ($\frac{2}{25} = \frac{8}{100}$). 0.8 is equivalent to $\frac{80}{100}$ and 80%.

9

I'm thinking of a number. I multiply it by 5 and add 7 to it. My solution is 17. What was my number?



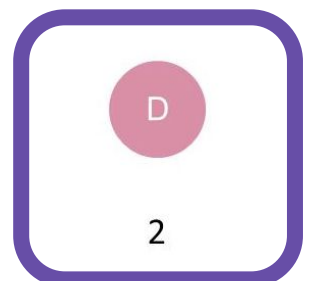
120



-3.6



50



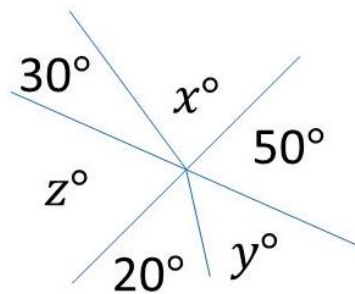
2

YEAR 6 HOMEWORK - REASONING

Answer each calculation fully, showing all workings.

10

Calculate the missing angle z ?



Not drawn to scale

A

$$z = 50^\circ$$

B

You cannot
calculate it

C

$$z = 80^\circ$$

D

$$z = 70^\circ$$

YEAR 6 HOMEWORK - MATHS SKILL

Skill recap: Time (pack 2)

1) Which 24 hour clock shows quarter past 4 in the morning?

A

04:15

B

16:15

C

15:16

D

15:04

2)

09:18 or 21:18

Draw this time on a
digital clock:

3)

Holly finishes dancing at 16:45
She has her tea 1 hour and 40 minutes later.
Which clock shows what time she had her tea?

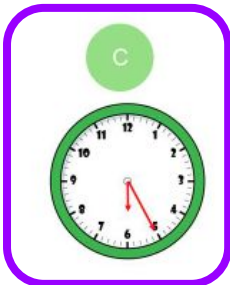
A



B



C



D



4)

Hour hand pointing at 6.
Minute hand pointing at 21
minutes.

YEAR 6 HOMEWORK - MATHS SKILL

Skill recap: Written division (pack 3)

Day 1		
Q	Question	Answer
1	$405 \div 5 = \square$	81
2	$552 \div 6 = \square$	92
3	$232 \div 8 = \square$	29
4	$186 \div 2 = \square$	93
5	$828 \div 9 = \square$	92
6	$291 \div 3 = \square$	97
7	$522 \div 6 = \square$	87
8	$315 \div 9 = \square$	35
9	$855 \div 9 = \square$	95
10	$292 \div 4 = \square$	73

YEAR 6 HOMEWORK - MATHS SKILL

Skill practise: Written multiplication

Q	Question	Answer
1	$510 \times 14 = \square$	7140
2	$526 \times 22 = \square$	11 572
3	$274 \times 89 = \square$	24 386
4	$473 \times 11 = \square$	5203
5	$12 \times 730 = \square$	8760
6	$12 \times 32 = \square$	384
7	$94 \times 454 = \square$	42 676
8	$6 \times 72 = \square$	432
9	$4 \times 273 = \square$	1092
10	$60 \times 37 = \square$	2220

YEAR 6 HOMEWORK - MATHS SKILL

Skill practise: Decimal multiplication

1 1.83×2

3.66

2 2.41×4

9.64

3 1.18×5

5.9

4 3.49×85

296.65

5 6.43×29

186.47

6 7.14×53

378.42

YEAR 6 HOMEWORK - MATHS SKILL

Apply: Written multiplication

1)

Sacks of potatoes contains an average of 95 potatoes. In a year, a farmer sells 4,911 sacks. How many potatoes does she sell in one year?

466,545 potatoes

2)

A rugby club has an average attendance of 6,962 people to each match. What is the total attendance for the 39 matches played in a season?

271,518 people

William's dad is updating his website for business.

A photographer charges **£695** per day.

A web designer charges **£1025** per day.

William's dad pays **£8235** in total for the work.

He employs the photographer for **3** days.

3)



For how many days does he employ the web designer?

6 days

£8235 total Photographer = £695 × 3 days = £2085

£8235 – £2085 = £6150 remaining Web designer = £1025 × 6 = £6150

YEAR 6 HOMEWORK - MATHS SKILL

Apply: Written multiplication

4

There are 77 biscuits in a packet.
A supermarket orders 9778 packets.

How many biscuits will be in the 9778 packets?
752,906 biscuits

5) Fill in the missing digits to complete the equation

		4	8	9
x				6
4	4		3	

a)

	5	4	8	9
x				6
4	4	2	3	5

b)

	7	4	8	9
x				6
4	4	9	3	4

c)

	7	4	8	9
x				6
4	4	4	3	4

d)

	3	4	8	9
x				6
4	4	8	3	5

YEAR 6 HOMEWORK - MATHS SKILL

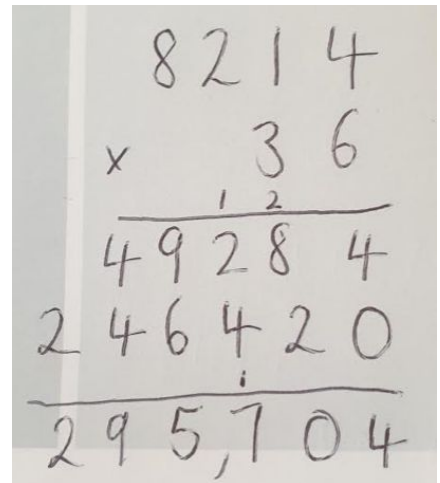
Apply: Written Multiplication



		8	2	1	4	
	x			3	6	
	4	9	2	8	4	+
2	4	6	4	2	0	
2	9	5	6	0	4	

- a) ☐ There is no mistake - it is the correct answer
- b) ☐ The place-holder has been forgotten
- c) ☒ Forgot to carry into the hundreds column when adding up the tens
- d) ☐ Made a mistake when multiplying by 6

Correct final answer
is 295,704.



$$\begin{array}{r}
 8214 \\
 \times \quad 36 \\
 \hline
 49284 \\
 246420 \\
 \hline
 295704
 \end{array}$$



YEAR 6 HOMEWORK - REASONING

Inverse number problems – ANSWERS

Collaborative – ANSWERS

c) I think of a number. I **add 15** and **multiply by 2**. Then I **divide by 2** and my answer is 16, what number was I thinking of?

Step 1: My answer was 16.

Step 2: $16 \times 2 = 32$

Step 3: $32 \div 2 = 16$

Step 4: $16 - 15 = 1$

The number you were thinking of is 1.

**To check, work the problem from the start with your answer as the number being used.*

d) I think of a number. I **divide by 2**, **add 98** and my answer is 100. What was my number?

Step 1: The answer was 100.

Step 2: $100 - 98 = 2$

Step 3: $2 \times 2 = 4$

The number you were thinking of is 4.

YEAR 6 HOMEWORK - REASONING

Independent - ANSWERS

- a) I think of a number. I add 50, multiply by 3 and subtract 25. My answer is 275, what number was I thinking of? **50**
- b) I think of a number. I multiply by 20, divide by 10 and subtract 5. The answer is 195. What was my number? **100**
- c) I think of a number. I double it, add 310, and then subtract 40. My answer is 1490, what number was I thinking of? **610**
- d) I think of a number, I multiply it by 2, and then add 9. The answer is 20. What was my number? **5.5**
- e) I think of a number, I divide by 4, add 10 and then double it. My answer is 44. What number was I thinking of? **48**
- f) I think of a number, I multiply by itself, subtract 44, add 10 and my answer is -33. What was the number? **1**

YEAR 6 HOMEWORK - MATHS CHALLENGE

www.solvemoji.com - 3 Junior

SOLUTIONS, PUZZLES & LEADERBOARDS ONLINE

$$9 + 9 = 18$$

$$10 + 9 = 19$$

$$10 + 12 = 22$$

$$12 + 18 = 30$$

Puzzle ID: 33746

Solvemoji.com

$$7 \times 7 = 49$$

$$3 + 7 = 10$$

$$18 \div 3 = 6$$

$$7 + 18 = 25$$

Puzzle ID: 34289 Solvemoji.com CODEMOJI

YEAR 6 HOMEWORK

ANSWERS – PACK 4

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WRITING
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YEAR 6 HOMEWORK - Writing

Vocabulary Ninja SPaG Spotter ANSWERS

Can you spot?	Circle it in the sentence.
the nouns	David visited Manchester to see his favourite team.
the verbs	Very quickly they opened the door to discover a tomb.
an adjective	Sheena, Phillip and Anthony all wore velvet jumpers.
an adverb	Sensibly, they scurried down the corridor.
the articles	A very clever woman found an amazing animal by the sea.
the determiners	Are there more biscuits in the barrel?
the prepositions	Toby hid under the table, whilst Freya hid in the cupboard.
a coordinating conjunction	Julie had loved the trip, yet she was still sad.
the pronouns	His dog could do tricks but mine could not.
a subordinating conjunction	When he was ready, they started up the car's engine.
a noun phrase	Will you talk to these rude people!

YEAR 6 HOMEWORK - Writing

SPAG Spotter!

ANSWERS

Which sentence is punctuated correctly?

Tom opened the door, hung his coat, sat down and ate his lunch.

Tom opened the door hung his coat, sat down and ate his lunch.

Tom opened the door, hung his coat sat down and ate his lunch.

Tom opened the door, hung his coat, sat down, and ate his lunch.

Tick
One



Which sentence is punctuated correctly?

"Let's go for a walk by the riverside demanded Jane".

"Let's go for a walk by the riverside, demanded Jane."

"Let's go for a walk by the riverside", demanded Jane.

"Let's go for a walk by the riverside," demanded Jane.

Tick
One



Which sentence uses clean as an adjective?

Go and clean your room.

I need to clean the car before I can play.

The clean kitchen was ready for the birthday party.

Andrew used a cloth to clean the windows.

Tick
One



YEAR 6 HOMEWORK - Writing

Which sentence is an **exclamation**?

The car was bright red

She said the sun was beautiful

What an amazing game that was

The flowers we extremely pretty

**Tick
One**



Which sentence uses **battle** as a **verb**?

The battle was devastating.

During the battle, soldiers fought with each other.

The twins would battle over the stuffed toy.

The tennis match was like a battle.

**Tick
One**



Which sentence contains a **relative clause**?

The girl who I met at the cinema is in my class.

The team is going to play on Saturday.

Tom said he wanted to learn to play the guitar.

Whenever they have time, they like to sit and read.

**Tick
One**



YEAR 6 HOMEWORK

ANSWERS – PACK 4

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READING/PLACE & TIME
on the following pages.

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YEAR 6 HOMEWORK - Reading

asteroid

(noun)

A large, natural object that orbits, or travels around, a star.

orbit

(noun)

The path that an object takes in space when it goes around a star, a planet or a moon.

unstable

(adjective)

Changeable; movable; can change without warning.

planet

(noun)

A chunk of rock and metal in outer space that is in orbit around the Sun.

researchers

(plural noun)

People who study a subject to find out new information.

spotted

(verb)

To be seen, to be noticed.

gravity

(noun)

A pulling force that works across space.

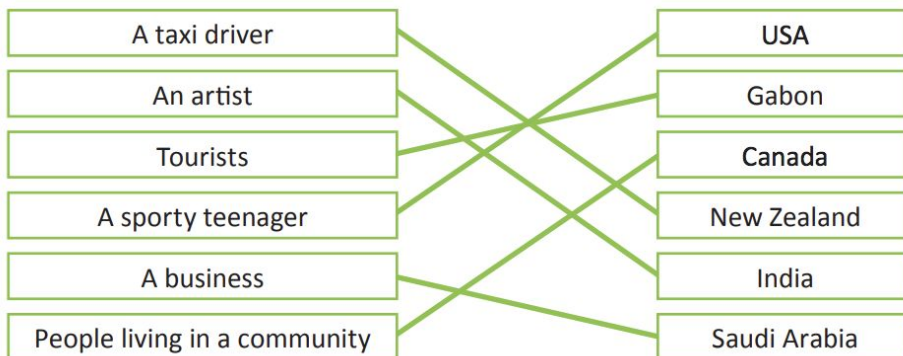
unusual

(adjective)

Strange, different.

YEAR 6 HOMEWORK - Reading ANSWERS

1) Match the people involved (the **subjects of the news story**) to their location.



2) Look at the story from **Canada**.

Find the meanings of these three words:-

Scaremongering – to create panic and fear

• Camaraderie – trust and friendship

• Caremongering – to spread ‘care’ or love and kindness

3) Look at the story from **New Zealand**.

Put these events in order.

Some chicks mistake shiny roads for water and crash into the ground

She drives the birds to a rescue centre, where they are nursed back to health and released

Hutton’s shearwater birds raise their chicks in the mountains

Each night Toni Painting rescues the chicks and puts them in her taxi

When the chicks are grown, they leave their nests and head for the sea

YEAR 6 HOMEWORK - Reading ANSWERS

4) Look at the news from **India**.

What message is being given in the sand sculpture?

Explain in your own words.

Raising awareness of Covid-19/Making people aware that they need to stay at home.

5) Find and copy 3 facts/statistics from the story from **Saudi Arabia**:

i) 26 metres tall.

ii) can seat 500 people.

iii) covered by 9,740cm² of mirrors

6) Look at the story from the **USA**.

What words would you use to describe 13-year-old Zaila Avant-Garde's new world record?

Inspirational/inspiring – she is promoting sports for girls around the world.

7) The coronavirus means that there is a lot of serious, and sometimes sad, news about. Which of these stories from around the world do you find either **cheering or fascinating**?

Explain your choice.

Any choice which explains the positive effects of the story(ies).

YEAR 6 HOMEWORK - Reading ANSWERS

- 1) How far apart should you plant the chilli seeds? 5 cm apart
- 2) Which word tells the reader how they should water the seeds when they have initially been planted? What does this suggest? You should water the seeds 'gently'. This suggests that you need to be careful as the seeds could be damaged easily.
- 3) What should you do when the seedlings appear?
Move the tray to a light, warm place.
- 4) Why does the author use the 'Can you take the heat?' subheading?
To direct the reader to a fact box about particularly hot chillies.
- 5) What should you do to encourage more growth from the chilli plant?
You should snip off the first chillies when they are still green.
- 6) How does the Cayenne pepper compare in heat units to other peppers? Explain your thinking.
The Cayenne pepper only scores up to 50,000 in the Scoville Heat Test, whereas the Trinidad Scorpion 'Butch T' scores 1,463,700. This suggests that it is not as spicy as we think!

Statement	True	False
You should position the seed tray to a warm place as soon as they have been planted.		✓
The top should be cut off the first chillies to encourage bushiness.		✓
The hottest chilli was grown by 'The Chilli Factory' in 2011.	✓	
When in individual pots, the chilli plant should be fed weekly.	✓	

YEAR 6 HOMEWORK - Reading

- 1) Why are 'green walls' useful for people with small gardens?

Green walls increase the area available to grow plants.

- 2) Describe the difference between the simplest and complicated form of green wall. The most simple walls can be created using climbing plants at the bottom of a wall, whereas more complex green walls are created by filling modules with plants and soil.

- 3) Look at the paragraph beginning 'How To...'

Explain why you may need to use plants that are 'natural climbers' to create a simple green wall. So that the plants can naturally grow up the vertical wall.

- 4) Why should you tie plants to the frame or wire?

Tying the plants will support them when growing up the structure.

- 5) What information can be gathered from this text about the largest vertical garden? The largest vertical garden was created in Madrid, Spain at the Hotel Mercure Santo Momingo, measuring 844.05m².

- 6) Find a synonym from the text to match each of the following words, then define the word.

helpful

beneficial

To give an advantage to something

even

regular

To keep something the same

appealing

attractive

Something with a pleasant appearance

particularly

especially

To describe one thing over another

YEAR 6 HOMEWORK - Place & Time

World War Two: Code Breakers!

a	b	c	d	e	f	g	h	i	j	k	l	m
20	21	22	23	24	25	26	27	28	29	30	31	32

n	o	p	q	r	s	t	u	v	w	x	y	z
33	34	35	36	37	38	39	40	41	42	43	44	45

As well as food, what other item was rationed during Second World War?

<u>C</u>	<u>L</u>	<u>O</u>	<u>T</u>	<u>H</u>	<u>E</u>	<u>S</u>
13 + 9	42 - 11	48 - 14	50 - 11	13 + 14	16 + 8	12 + 26

What were the new homes for evacuees called?

<u>B</u>	<u>I</u>	<u>L</u>	<u>L</u>	<u>E</u>	<u>T</u>	<u>S</u>
40 - 19	15 + 13	25 + 6	49 - 18	19 + 5	48 - 9	25 + 13

i. What were people encouraged to collect as part of the war effort?

<u>S</u>	<u>C</u>	<u>R</u>	<u>A</u>	<u>P</u>
100 - 62	18 + 4	100 - 63	60 - 40	23 + 12
<u>M</u>	<u>E</u>	<u>T</u>	<u>A</u>	<u>L</u>
80 - 48	19 + 5	65 - 26	75 - 55	99 - 68