

Marlborough Primary Academy



**Home Learning
Class 5/6D**

**Week beginning
1/6/2020**



5-a-day

1) TTRockstars – 30 minutes

2) Morning maths

3) Independent Reading – 30 minutes

4) Spelling – 20 minutes

5) P.E. – Joe Wicks workout

English



Look carefully at the picture and then answer the questions – make sure you answer in full sentences.

Maths

Multiplying and dividing by 10, 100, 1000

Watch the video about \times and \div . I've included a Gattegno chart and a place value chart to help. Try pages 1 and 3 of the worksheets – I've put them in this booklet.

Check your answers

If you want more look at the activities on BBC bitesize -

<https://www.bbc.co.uk/bitesize/articles/zbvkwty>

[Video](#)

[Worksheets](#)

[Answers](#)

STEM/Creative

Our topic this term is going to be all about plants and is called:
What is a flower for?

Today, find an interesting flower and try to sketch it as accurately as you can.
Look carefully at the flower- what can you see?
Draw every part of the flower with as much detail as you can.

Morning maths – Monday 1/6/20

$$3672 \times 37$$

$$\begin{array}{r} 3672 \\ \times 37 \\ \hline \end{array}$$

What is $\frac{1}{4}$ of 24 add $\frac{1}{3}$ of 42?

What is 49% of 700?

Hint – 49% = 50% - 1%

$$2321 \div 4$$

1) as remainder

2) as decimal

3) as fraction

Multiply by 10, 100 and 1,000

- 1 Complete the calculations and sentences.

Use place value counters to help you.

Th	H	T	O	Tth	Hth
			● ● ● ● ●	● ● ● ● ●	

a) $2.3 \times 10 =$

When the number is multiplied by 10 the counters move place to the left.

b) $2.3 \times 100 =$

When the number is multiplied by 100 the counters move places to the left.

c) $2.3 \times 1,000 =$

When the number is multiplied by 1,000 the counters move places to the left.

- 2 Complete the diagram.



- 3 a) Draw counters on the place value charts to represent each calculation.

4.4×1

Th	H	T	O	Tth	Hth
				●	

4.4×10

Th	H	T	O	Tth	Hth
				●	

4.4×100

Th	H	T	O	Tth	Hth
				●	

$4.4 \times 1,000$

Th	H	T	O	Tth	Hth
				●	

- b) Complete the calculations.

$4.4 \times 1 =$

$4.4 \times 10 =$

$4.4 \times 100 =$

$4.4 \times 1,000 =$

What do you notice?

Divide by 10, 100 and 1,000

1 Complete the calculations and sentences.

Use place value counters to help you.

Th	H	T	O	Tth	Hth
	●	●●			

a) $140 \div 10 =$

When the number is divided by 10 the counters move place to the right.

b) $140 \div 100 =$

When the number is divided by 100 the counters move places to the right.

c) $140 \div 1,000 =$

When the number is divided by 1,000 the counters move places to the right.

2 Complete the diagram.



3 a) Draw counters to represent the calculations.

$123 \div 1$

H	T	O	Tth	Hth	Thth

$123 \div 10$

H	T	O	Tth	Hth	Thth

$123 \div 100$

H	T	O	Tth	Hth	Thth

$123 \div 1,000$

H	T	O	Tth	Hth	Thth

b) Complete the calculations.

$123 \div 1 =$

$123 \div 10 =$

$123 \div 100 =$

$123 \div 1,000 =$

What do you notice?



World Travel



Look carefully at the picture and then answer these question.

1. What does the image represent?

2. What do the landmarks represent?

3. If the image were used as an advert, what might it be advertising?

4. The image has a key message in it. Explain what you think this message is.

5. Use three adjectives to describe the image.

6. Why do you think different modes of transport are shown in the image?

7. The image represents different countries around the world. What else could it represent?

8. What key landmarks are in the image?

9. Are there any key landmarks that you think should be included in the image? Why?

10. The weather in the image is varied. Why do you think this is? Explain your reasoning.

11. What feelings might the picture make you feel? Give three examples.

12. The image has many famous landmarks in it. Where else might you have seen images of these landmarks?



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English

Vocabulary definition

Look carefully at the words and use a dictionary or the internet to find definitions – remember to tell me the word class of each word – noun, verb, adjective, adverb

Maths

Multiplying decimals by whole numbers

Watch the video – don't forget to pause and think when asked to do so.

Try the work sheet and if your stuck have a go at the BBC Bitesize activities

Don't forget to check your answers!

[Video](#)

[Worksheets](#)

[Answers](#)

[Need a
hand?](#)

STEM/Creative

Flowers usually grow in the soil.

But what is soil?

Try the simple experiment on the next sheet to investigate.



Fill an empty jar about three quarters full of water.

Collect some soil and put it into the jar with the water. Now leave it overnight.

Tomorrow look carefully at the jar.

Hopefully you'll be able to see different layers of the different things in soil.

From top to bottom you might see:

humus (rotting bits of plants)

Cloudy water

Clay

Silt

Sand

Gravel

You could draw a picture of your discovery.

Morning maths - Tuesday 2/6/20

$$4031 - 34.9$$

$$3572 + 9751$$

$$\begin{array}{r} 3572 \\ + 9751 \\ \hline \\ \hline \end{array}$$

My number is odd – my number is between 10 and 30. My number's digits add to make 9. What is my number?

What is $\frac{2}{5}$ of 1240?

Hint – divide by the bottom – times by the top





Multiply decimals by integers

1 Use place value counters to solve the calculations.

a) $3.2 \times 3 =$

Ones	Tenths
	
	
	

b) $4.6 \times 2 =$

Ones	Tenths
	
	

2 Solve the multiplication. Draw your answer.

$12.2 \times 3 =$

Tens	Ones	Tenths



3 Nijah uses long multiplication to solve 3.72×3

		3	7	2
	x			3
		0	0	6
		2	1	0
		9	0	0
		1	1	1
				6

Use long multiplication to work out the calculations.

a)

		4	8	6
	x			4

b)

		2	0	9
	x			6

4 Work out the multiplications.

a) $5.2 \times 4 =$

d) $= 2.34 \times 3$

b) $14.3 \times 3 =$

e) $11.505 \times 4 =$

c) $6 \times 9.1 =$

f) $9.602 \times 6 =$

- 5 0.25 kg of flour is needed to make one cake.
How much flour is needed to make four cakes?



- 6 Work out the multiplications.

a) $7.2 \times 2 =$

$7.2 \times 4 =$

$14.4 \times 4 =$

$7.2 \times 8 =$

b) $= 3.45 \times 3$

$= 34.5 \times 3$

$= 345 \times 3$

- 7 Amir is solving 3.4×4



To solve this, I
did 34×4 , which was 136
Then I multiplied my answer
by 10 to get an answer
of 1,360

Do you agree with Amir? _____

Explain why.

- 8 Use the digits 1, 2, 3 and 4 once each to create a calculation.

1	2	3	4
---	---	---	---

<input type="text"/>	\cdot	<input type="text"/>	<input type="text"/>	\times	<input type="text"/>
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- a) How many different products can you make?

- b) What is the greatest possible product?

- c) What is the smallest possible product?

- d) What is the product closest to 12?

Compare answers with a partner.



Write definitions of word meanings

Look through the vocabulary list of words which could be used to describe yesterday's English Picture – what do they mean? Use a dictionary (online word definition works too) to explain what they mean – make sure you use your own words not just copy. Also tell me the word class – verb, noun, adjective, adverb too

accommodation		globetrotter	
ambiance		international	
amenities		overbooking	
availability		picturesque	
cancellation		recuperation	
convenience		Xanadu	

Choose your favourite 4 words and write a sentence for each one – try to also use the fronted adverbial, expanded noun phrases and powerful verb skills we learned last week



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English

Grammar and vocabulary

Work through the sample questions – make sure you are careful about what tense of verb you choose.

Maths

Divide decimals by whole numbers

Watch the video lesson – don't forget to pause and think when asked to.

Try the worksheet and then check your answers.

[Video](#)

[Worksheet](#)

[Answers](#)

Computing



Try Catherine Wheel – Gibbon coding

Too tricky? Try Newton and the apple – Chimp coding

They have both been set as 2dos on your Purple Mash – try them both if you want.

I think of a number, times it by 5. Then divide it by 3. My answer is 20. What was my number?

22 | 4048

22 – 1
44 – 2
66 – 3
88 – 4
110 – 5
... - 6
... - 7
... - 8
... - 9
... - 10

Hint – try to undo (reverse) the problem

My number is 457
What is my number $\times 10$?

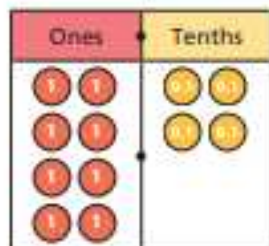
What is my number $\div 10$?

£102.56 - £45.20

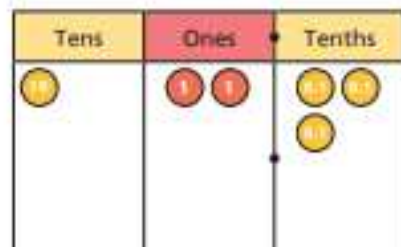
Divide decimals by integers

- 1 Use place value counters to work out the divisions.

a) $8.4 \div 4 =$

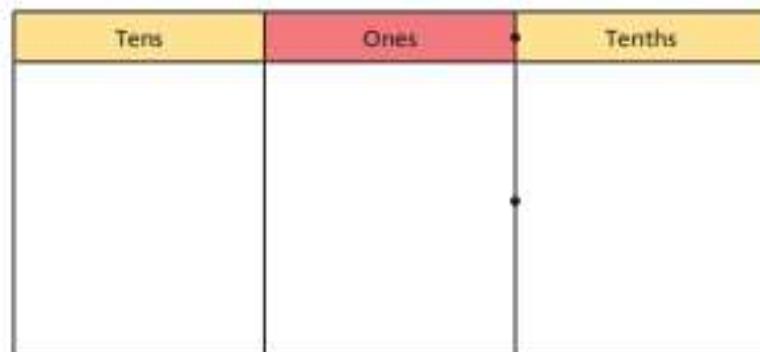


b) $12.3 \div 3 =$

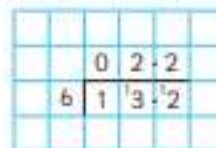


- 2 Work out the division. Draw your answer.

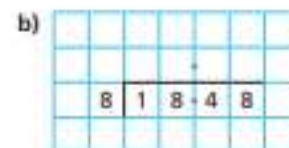
$16.4 \div 4 =$



- 3 Brett uses short division to work out $13.2 \div 6$



Use short division to work out the calculations.



- 4 Work out the divisions.

a) $25.6 \div 8 =$

d) $= 19.45 \div 5$

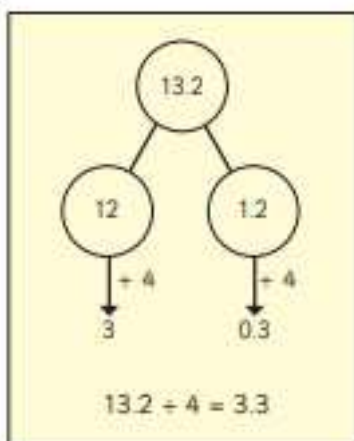
b) $14.8 \div 4 =$

e) $202.35 \div 3 =$

c) $18.48 \div 6 =$

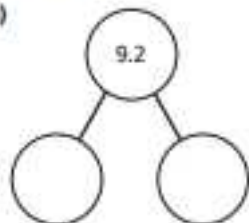
f) $105.12 \div 9 =$

- 5 Esther solves $13.2 \div 4$ by partitioning 13.2 into two numbers that are easier to divide.



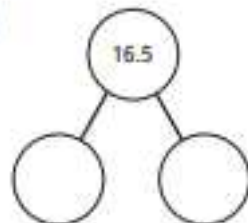
Use Esther's method to complete the part-whole model and calculation.

a)



$$9.2 \div 4 = \boxed{}$$

b)



$$16.5 \div 3 = \boxed{}$$

Compare answers with a partner. Did you partition your numbers in the same way?

- 6 Work out the divisions.

a) $9.64 \div 4 = \boxed{}$

$$96.4 \div 4 = \boxed{}$$

$$0.964 \div 4 = \boxed{}$$

$$9.64 \div 8 = \boxed{}$$

b) $19.44 \div 9 = \boxed{}$

$$19.53 \div 9 = \boxed{}$$

$$19.62 \div 9 = \boxed{}$$

- 7 Fill in the missing numbers.

$$3.6 \div 4 = 36 \div \boxed{}$$

$$3.6 \div 4 = \boxed{} \div 8$$

- 8 Complete the calculation.

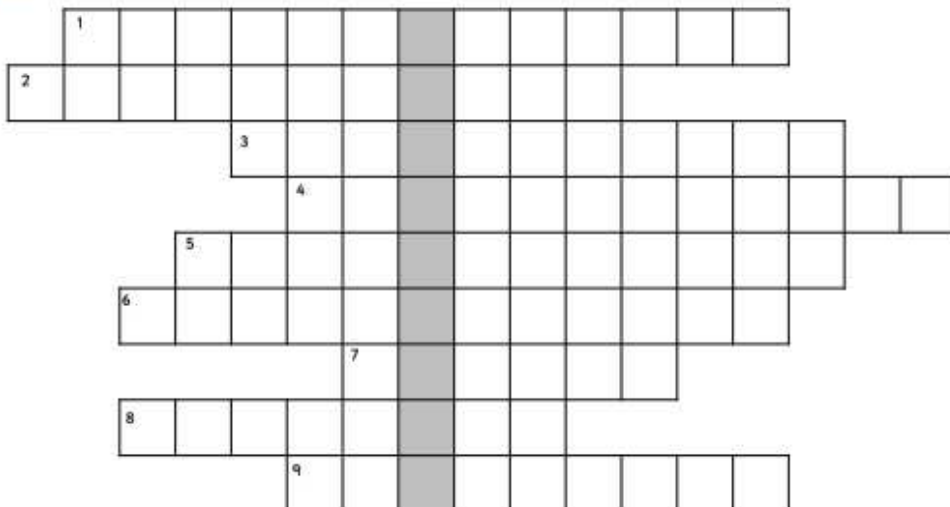
$$8.4 \div \boxed{} = 4.2 \div \boxed{}$$

How many different solutions can you find?

What patterns do you notice? Talk about it with a partner.

World Travel – Vocab 2

Complete the crossword by finding the correct words for the sentences below. Then find the hidden word.



1	Usually he travelled locally but this time his travel was _____.
2	For her _____, there were bars, restaurants and even a hospital on the island.
3	The family were angry: they could not have a seat on the aeroplane due to an _____.
4	She thought of herself as a _____ as she loved exploring the world when backpacking.
5	They went on holiday for some relaxation and _____. They had both been working so hard lately.
6	Mark was lucky; he managed to get a last-minute flight due to a _____.
7	The architect was adamant he wanted to build a _____ for all to enjoy.
8	The _____ of the place was serene and peaceful, perfect for their honeymoon.
9	The _____ here were scarce; after all, they were camping in the jungle!

The hidden word is _____.

Which sentence is punctuated correctly? Tick one.

Once at the hotel Maria decided, to take an excursion, to see the elephant sanctuary only two days later.

☐

Once at the hotel, Maria decided to take an excursion to see the elephant sanctuary only two days later.

☐

Once at, the hotel Maria decided to take an excursion to see the elephant, sanctuary only two days later.

☐

Once at the hotel Maria decided to take an excursion to see the elephant sanctuary only two days later.

☐

Rewrite the sentence below using a subordinate clause.

She travelled up the Eiffel Tower.

Rewrite the sentence below in the passive voice.

Many people like travelling.

Complete each sentence below with either 'is' or 'are'.

They _____ enjoying their holiday this year.

This swimming costume _____ new for my trip to Bali.

These gloves _____ needed for the ski slopes.

The people on the aeroplane _____ relieved to be travelling now after a delay in taking-off.



5-a-day

1) TTRockstars – 30 minutes

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English

DADWAVERS!

We have used DADWAVERS! In class as a way of making our writing more interesting. Have a look at the ideas, see how I have used them in the example and then try writing your own.

Maths

Decimals as fractions

Watch the video lesson – don't forget to pause and think when asked to.

Try the worksheet and then check your answers

[Video](#)

[Worksheet](#)

[Answers](#)

STEM/Creative

Each part of a plant does a different job.

Leaves are used to collect the sun's energy by photosynthesis. Leaves can also be very beautiful. Collect some leaves and try making a leaf rubbing.

Put the leaves on a flat surface under a sheet of paper and rub over the top with a crayon or coloured pencil.



$$703 \times 26$$

$$\begin{array}{r} 703 \\ \times 26 \\ \hline \end{array}$$

Find 36% of 600.

Hint: how many 1%s make 36%?

$$2005 - 998$$

What are the next 4 numbers in this sequence?

2, 11, 20, __, __, __, __

Hint – a number line might be the easiest way

Decimals as fractions

1 Complete the sentences.

a)

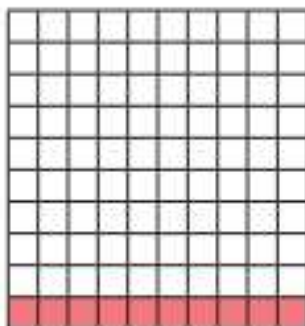
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

The whole has been divided into equal parts.

Each part is worth

This is equivalent to

b)



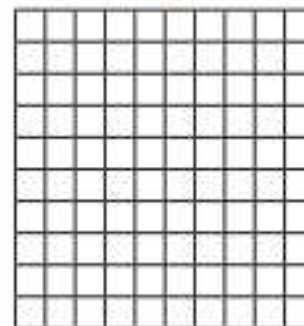
The whole has been divided into equal parts.

Each part is worth

parts out of are shaded.

This is equivalent to

2 a) Shade 0.17 of the hundred square.



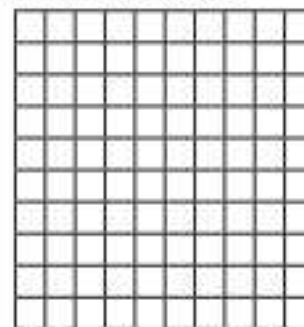
Complete the sentence.

parts out of are shaded.

Write 0.17 as a fraction.

0.17 =

b) Shade 0.2 of the hundred square.



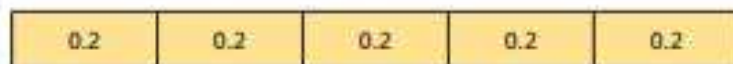
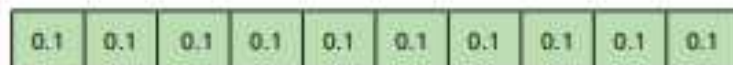
Complete the sentence.

parts out of are shaded.

Write 0.2 as a fraction in its simplest form.

0.2 =

3



Use the bar models to fill in the missing numbers.

$$0.2 = \frac{\boxed{}}{10} = \frac{1}{\boxed{}}$$

$$0.4 = \frac{\boxed{}}{10} = \frac{2}{\boxed{}}$$

$$\boxed{} = \frac{\boxed{}}{10} = \frac{4}{5}$$

4

Fill in the missing numbers.

a) $0.54 = \frac{\boxed{}}{100} = \frac{\boxed{}}{50}$

b) $0.6 = \frac{\boxed{}}{10} = \frac{\boxed{}}{5}$

c) $0.3 = \frac{\boxed{}}{10} = \frac{\boxed{}}{100}$

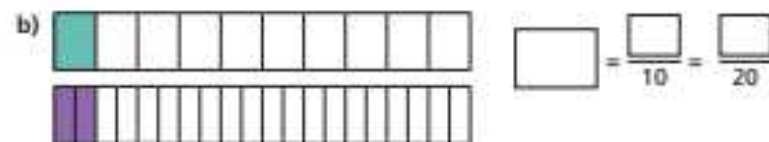
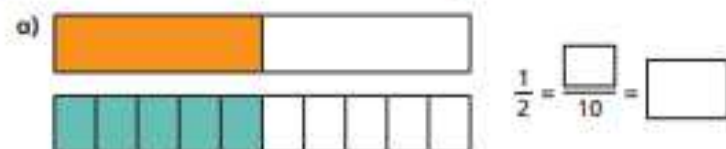
d) $\boxed{} = \frac{9}{100}$

e) $\boxed{} = \frac{9}{10}$

f) $\frac{21}{50} = \frac{\boxed{}}{100} = \boxed{}$

5

Use the bar models to fill in the missing numbers.



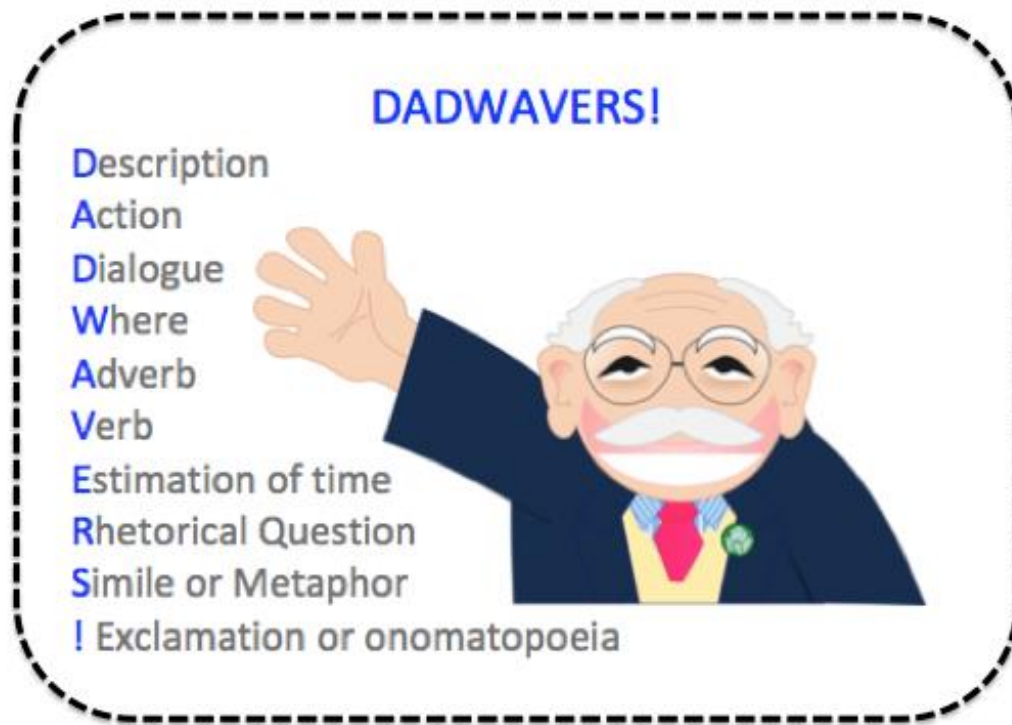
6



$0.3 = \frac{3}{10}$ so $0.37 = \frac{37}{10}$

Draw a diagram to show that Ron is wrong.

DADWAVERS! are a great way to vary sentence openers and make writing more interesting and exciting.

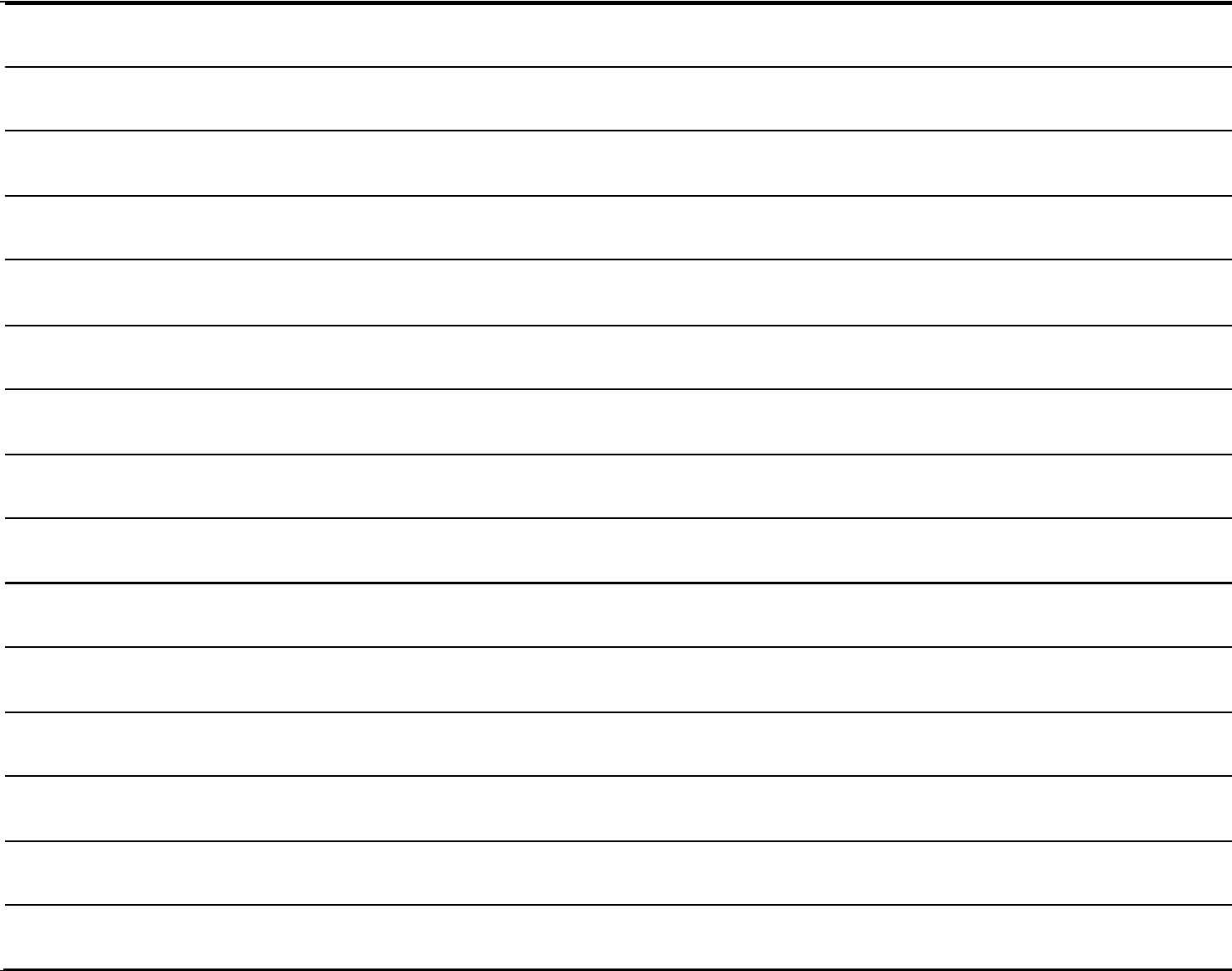


I've put together an example – using DADWAVERS in order – can you find each sentence opener?

Try for yourself on the next page...

You have finally found the legendary treasure – describe opening the chest and finding what's inside

The twisted gnarled tree roots covered the path ahead. With a loud snap a branch broke as I took a step. "Hello?" I called out, "Is anyone there?". From the darkness around me there was nothing but silence. Slowly, carefully I took a few more steps towards the dark shack. Creeping the final metres I approached the front door. I waited for what felt like hours before gripping the iron door handle. "What could be waiting inside?" I asked myself. Like a sloth moving through a rainforest I silently opened the door. Creeaaaakk! The door noisily opened to reveal a terrifying scene.



D	A	D	W	A	V	E	R	S	!
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5-a-day

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English



Friday – big write

Use the picture as a stimulus to continue writing the story – into your exercise book or log on to Purple Mash and complete the PortalTree2do

Maths

Friday's problem solving challenge

Scroll down for today's challenges. How many of the problem solving challenges can you solve?

Numbers 1-3 shouldn't be too tricky

4,5 and 6 will test your brain.

Number 7 is only on the website – it gave me a small head ache!

[Friday's Problems](#)

STEM/Creative

We use plants for all sorts of things. The most obvious is we eat them! But there are many other uses for plants.

Make a poster to show some of the different uses for plants. What is the most unusual use you can find?

Morning maths – Friday 5/6/20

What is the area of this shape?



What units of measure do you need?

What is $\frac{4}{7} \times 5$ – don't forget to simplify your answer.

$$\frac{4}{7} \times 5 = \underline{\hspace{2cm}}$$

Hint: whole number to fraction – t x t b x b

What is $\frac{5}{6} + \frac{1}{2}$

$$\frac{5}{6} + \frac{1}{2} = \underline{\hspace{2cm}}$$

Use common denominators to add.

$$31 \overline{) 7967}$$

- 31 – 1
- 62 – 2
- 93 – 3
- 124 – 4
- 155 – 5
- ... - 6
- ... - 7
- ... - 8
- ... - 9
- ... - 10

Friday – big write – finish the story in your exercise book or use the Portal2do



Story opener

The tree was all that remained. A solitary figure, it stood there in defiance of the destruction surrounding it. The bark had begun to peel away, one piece at a time, joining the wreckage of other trees that lay scattered across the scorched earth.

This tree was different to the other trees. It contained magic. It contained hope...

Things to think about

- how is this tree different?
- what happened to the other trees?
- where could the portal lead?
- would you be brave enough to go through?

How many DADWAVERS! can you use in your story? – Cross them off as you write.

D

A

D

W

A

V

E

R

S

!

Friday's Maths Challenges

Challenge 1

Jane is standing in a queue.

There are 5 people in front of her.

There are 2 people behind her.

How many people are in the queue?



Challenge 5

Charlie has a tin of paint.

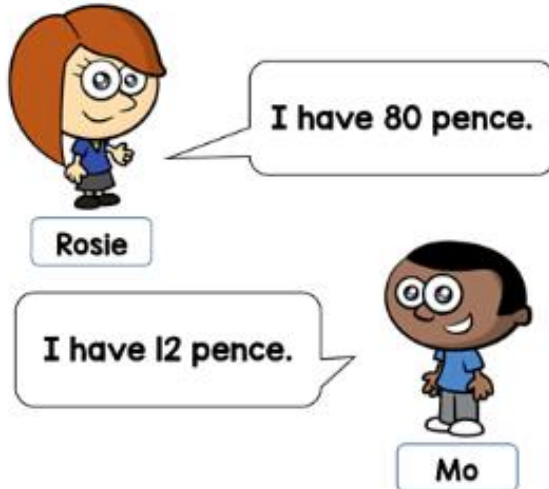
The tin is half full and weighs 5.8 kg. Charlie paints a wall in his house.

The tin is now a quarter full and weighs 3.1 kg.

How much does the empty tin weigh?



Challenge 2



Rosie gives Mo 25 pence.

How much more money does Rosie have than Mo now?

Challenge 3

If

$$70 + \text{yellow circle} = 100$$

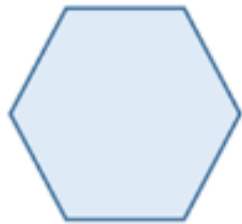
$$50 + \text{green triangle} = 100$$

$$\text{yellow circle} + \text{green triangle} + \text{blue square} = 100$$

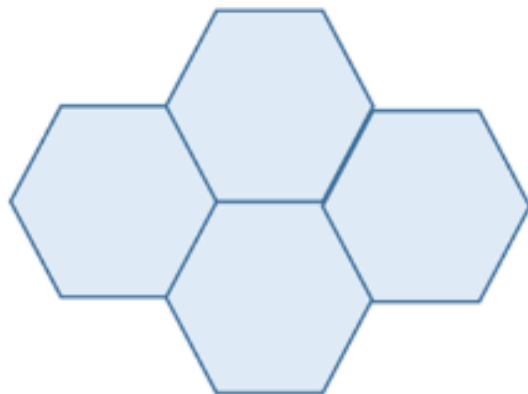
What is the value of the blue square?

Challenge 4

The perimeter of this regular hexagon is 42 cm.



Four of these hexagons are put together to make this shape.



What is the perimeter of the shape?

Challenge 6

A spinner has 5 equal sections. The sections are labelled A to E.



The arrow is pointing to the centre of section A.



Tom rotates the arrow clockwise so that the arrow is now pointing to the centre of section D.

What angle has the arrow been rotated through?

This week's web-links	
Monday Maths Video	https://vimeo.com/418156588
Monday Maths worksheets	https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-1-Multiply-and-divide-by-10-100-and-1000.pdf
Monday maths answers	https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-1-Answers-Multiply-and-Divide-by-10-100-and-1000.pdf
Tuesday Maths - video	https://vimeo.com/418156804
Tuesday Maths activity 1	https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-2-Multiply-decimals-by-integers-2019.pdf
Tuesday Maths answers	https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-2-Answers-Multiply-decimals-by-integers-2019-1.pdf
Wednesday Maths - video	https://vimeo.com/418156950
Wednesday maths – activities 1	https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-3-Divide-decimals-by-integers-2019.pdf
Wednesday maths answers	https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-3-Answers-Divide-decimals-by-integers-2019.pdf
Thursday maths – video	https://vimeo.com/418157153
Thursday maths worksheet 1	https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-4-Decimals-as-fractions-2019.pdf
Thursday maths answers	https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-4-Answers-Decimals-as-fractions-2019.pdf
Friday Maths	https://www.bbc.co.uk/bitesize/articles/z489d6f