Marlborough Primary Academy

Home Learning Class 5/6D

Week beginning 15/6/2020

	Marlborough Primary Academy	Class 5/6D	Home Learning	Monday 15/6/20

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

Reading Comprehension

Raed through the diary entries all about Howard Carter's discovery of the tomb of Tutankhamun.

Read the questions and then answer them in full sentences in you Englih exercise book.

Maths

Fractions to percentages

Watch the video – remember to pause and try the calculations and problems when you are asked to.

Then try the workaheet before you check your answers

If you get stuck don't forget to send me or Mr. Bright a dojo message.

Video

Worksheets

Answers

STEM/Creative

Try this colourful and creative idea. Trace around your hands and then fill in the shapes with amazing patterns. For inspiration try researching mehndi patterns.

Morning maths – Monday 15/6/20	
2531 x 73 2 5 3 1 x 7 3 —————— —————— ——————	2/5 of a number is 64. What is the number? Hint – find 1/5 before finding the whole
What is 41% of 900? Hint – 40% is 4 x 10%	5329 ÷ 2 1) as remainder 2) as decimal 3) as fraction

Find a rule – two step

1 Use the function machine to complete the table.

input → | × 5 | → | + 2 | → output

Input	1	2	3	5	10	50
Output						

2 Here is the same function machine with the steps in the reverse order.

input → | + 2 | → | × 5 | → output

The outputs will be the same.
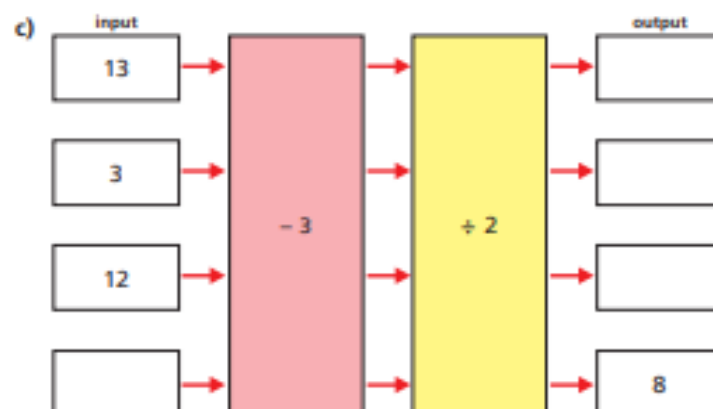
Teddy

The outputs will be different.

Jack

Explain to a partner who you think is correct.
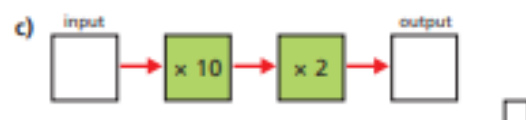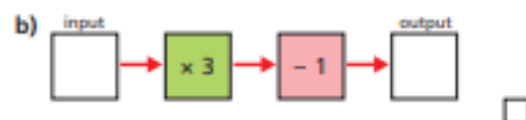
Use the function machine to complete the table.

Input	1	2	3	5	10	50
Output						

Who is correct? _____

3 Work out the missing outputs and inputs.

a)

input → [1] → | × 5 | → | + 4 | → output [ ]

input → [5] → | × 5 | → | + 4 | → output [ ]

input → [8] → | × 5 | → | + 4 | → output [ ]

input → [ ] → | × 5 | → | + 4 | → output [39]

b)

input → [3] → | × 5 | → | − 4 | → output [ ]

input → [4] → | × 5 | → | − 4 | → output [ ]

input → [20] → | × 5 | → | − 4 | → output [ ]

input → [ ] → | × 5 | → | − 4 | → output [51]

c)

input → [13] → | − 3 | → | ÷ 2 | → output [ ]

input → [3] → | − 3 | → | ÷ 2 | → output [ ]

input → [12] → | − 3 | → | ÷ 2 | → output [ ]

input → [ ] → | − 3 | → | ÷ 2 | → output [8]
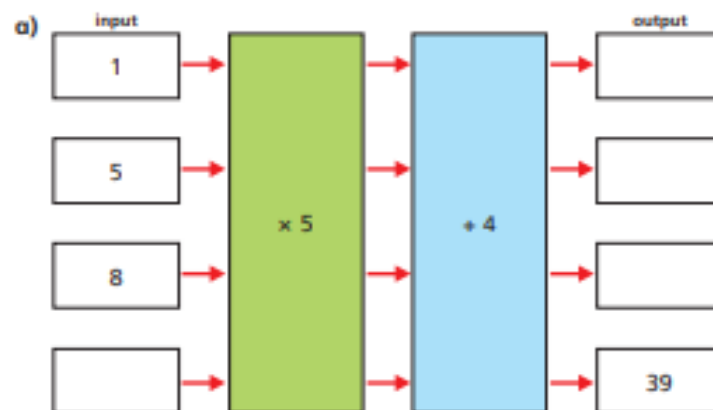
4 Tick the pairs of function machines that will give the same outputs for a given input.

a)

input → +3 → +4 → output ☐

input → +4 → +3 → output

b)

input → ×3 → −1 → output ☐

input → −1 → ×3 → output

c)

input → ×10 → ×2 → output ☐

input → ×2 → ×10 → output

Explain your reasoning to a partner.

5 Here are some 2-step function machines.

For each machine, write a single step that would give the same output.

Check your answers by inputting values.

a)

input → ×5 → ×2 → output _____

b)

input → +12 → −2 → output _____

c)

input → ×8 → ÷2 → output _____

Can all 2-step function machines be written as a 1-step function machine?

Talk about it with a partner.

6 Here is a function machine.

input → −3 → ×4 → output

a) Complete the table.

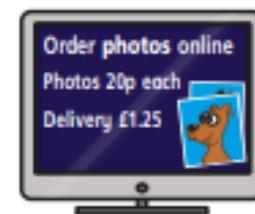| Input	10	3		
Output			40	280

b) Rosie puts a number into the machine and she gets out the same number.

Work out Rosie's number.

☐

7 Mr Hall and Mrs Rose order some photos online.

Order **photos** online
Photos 20p each
Delivery £1.25

a) Mr Hall orders 16 photos.

How much does he pay?

☐

b) Mrs Rose pays £6.05

How many photos did she order?

☐

Vibrant Summer – Follow-Up Work

1. Identify ONE question you would like to ask about this scene.

2. How does this photo make you feel and why?

3. How is the woman feeling and why do you think that?

4. State TWO facts and TWO opinions about this photo.

5. What is happening in this picture?

6. List 5 different things you can see in this photo – be descriptive!

7. Which word do you think best describes this scene and why? Vibrant, calm or busy.

8. Would you show this image to someone else? Why/why not?

9. Where might this picture have been taken?

10. Why might this woman be taking photos? Think of as many different plausible reasons as possible.

Marlborough Primary Academy	Class 5/6D	Home Learning	Tuesday 16/6/20

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

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

Equivalent fractions, decimals and percentages

Watch the video – remember to pause and try the calculations and problems when you are asked to.

Then try the workaheet before you check your answers

If you get stuck don't forget to send me or Mr. Bright a dojo message.

Video

Worksheets

Answers

STEM/Creative

Try the transpiration experiment. You'll need a clear plastic bag, some string and access to a leafy green plant. See the experiment details on the next sheet.

Morning maths - Tuesday 16/6/20

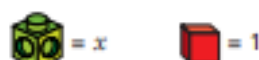|	
8542 – 962	103,852 + 90,472
	$+$ _____ _____ Hint – set out using place value
My number digits add to make 10. My number is odd and between 20 and 50. What could my number be?	What is 4/5 of 550? Hint – divide by the bottom – times by the top

Forming expressions

1 Tommy uses multilink cubes to represent an unknown number and base ten ones to represent 1

$$\text{cube} = x \qquad \text{block} = 1$$

Write algebraic expressions to describe the sets of cubes.

The first one has been done for you.

a) $\underline{2x + 3}$

b) _____

c) _____

d) _____

e) _____

f) _____

g) _____

h) _____

2 Use Tommy's method to represent these expressions.

a) $x + 2$

b) $2x$

c) $3x + 1$

d) $x + 6$

Compare answers with a partner.

3 Use cubes to help you simplify the following expressions.

The first one has been done for you.

a) $2y + 5 + y$

$\underline{3y + 5}$

b) $3a + 2 + a + a$

_____

c) $6p + 2 - 2p$

_____

d) $m + 4 + 3m - 3$

_____

4 Complete the function machines.

a)

input		output
2	→	6
7	→	11
y	→	

b)

input		output
2	→	4
5	→	10
y	→	

c)

input → [ ] → output
6 → 3
12 → 9
y → [ ]

d)

input → [ ] → output
30 → 3
50 → 5
y → [ ]

5 Match each statement to the equivalent algebraic expression.

Write the missing statements.

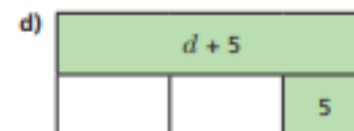|	
5 more than y	$2y$
y less than 5	$y - 5$
y multiplied by 5	$5 - y$
y divided by 5	$y + 5$
double y	$5y$
[ ]	y^2
[ ]	$\frac{y}{5}$
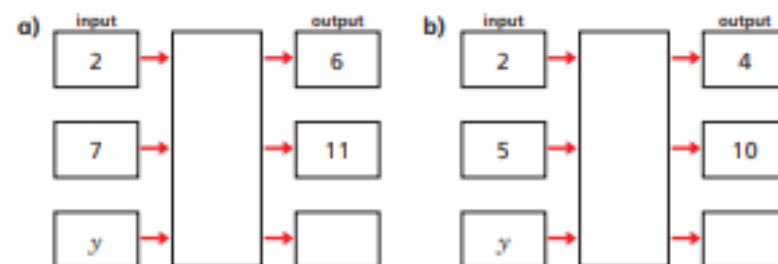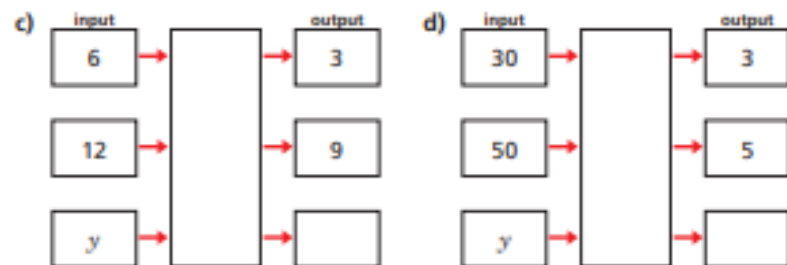
6 Write an algebraic expression to represent the perimeter of each shape.

a)

_____

d)

_____

b)

_____

e)

_____

c)

_____
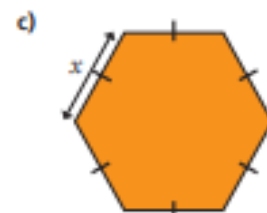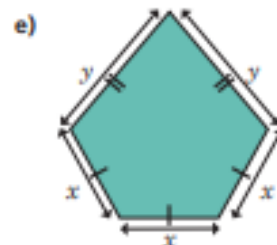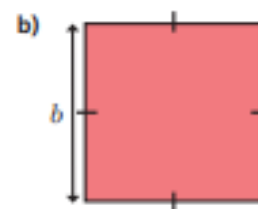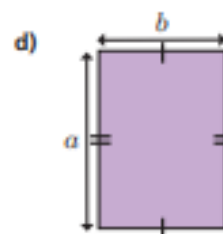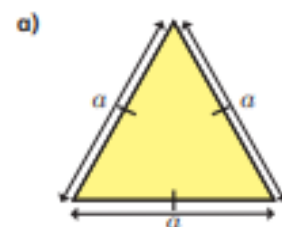
7 Complete the bar models.

a)

a	a

c)

c			

b)

b	b	10

d)

$d + 5$		
		5

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

sunlight		relax	
camera		vibrant	
market		stalls	
vegetables		lens	
parasol		produce	
vacation			

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

Transpiration Experiment

What do leaves do? One thing they do is to take energy from sunlight and use it to grow (photosynthesis). Another thing they do is transpiration. This is where water leaves the plant. Plants do this to help take in more nutrients.

You can observe this by tring a simple experiment. You'll need a clear plastic bag, string and access to a green plant. This is what you have to do.

Place your bag over a leafy branch or stem. Tie it tightly (but don't damage the plant).

Now wait for an hour. What do you notice happening inside the bag?

	Marlborough Primary Academy	Class 5/6D	Home Learning	Wednesday 17/6/20

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

Grammar and vocabulary
Carefully read and answer the grammar and ocabulary questions.

Maths

Ordr fractons, decimals and percentages
Watch the video – remember to pause and try the calculations and problems when you are asked to.

Then try the workaheet before you check your answers

If you get stuck don't forget to send me or Mr. Bright a dojo message.

Video

Worksheet

Answers

Computing

Log-on to Purple Mash and try the Splatty Bug 2do.

If it's too tricky try the Princess and the frog from Chimp coding.

Splatty Bug

Morning maths – Wednesday 17/6/20

I think of a number, add 7. Then multiply what I get by 5. My answer is 85. What was my number?

$$16 \overline{)\ 2\ 8\ 4\ 8}$$

16 – 1
32 – 2
48 – 3
64 – 4
80 – 5
... – 6
... – 7
... – 8
... – 9
... – 10

Hint – try to undo (reverse) the problem

My number is 7540
What is my number ÷ 100?

$45.8 – 17.24$

Hint – use a place value grid

Hint – Set out using place value

Substitution

1

$\pentagon = 4$ $\bigcirc = 5$

Use the given facts to work out the calculations.

a) $\pentagon + \pentagon + \bigcirc$

b) $\pentagon + \pentagon - \bigcirc$

c) $\bigcirc + \bigcirc + \bigcirc + \pentagon + \pentagon$

2

$\triangle = 12$ $\blacksquare = 5$

Use the given facts to work out the calculations.

a) $\triangle - \blacksquare$

b) $\triangle \times \blacksquare$

c) Create your own calculation that will be equal to 22

3 If $x = 5$, write the values of the expressions in the corresponding grid.
The first one has been done for you.

$3x$	x^2	$2x - 5$
$4x + 2$	$\frac{x}{2}$	$2(x + 1)$
$7x$	$x + 9$	$x - 7$

15		

4 If $a = 10$ and $b = 6$, work out the values of the expressions.

a) $a + b = $

d) $2a + b = $

b) $a - b = $

e) $3a - 17 = $

c) $2a = $

f) $2(a - b) = $

5 If $m = \frac{4}{5}$ and $k = 0.1$, work out the value of $m + 2k$

6

It does not matter what p and q are, $p + q$ and $q + p$ will always give the same answer.

Mo

Do you agree with Mo? _____

Explain your answer.

_____

_____

_____

7

$m = 7 \quad n = 5$

Write >, < or = to compare the expressions.

a) $2m$ ◯ 10

b) $n - 1$ ◯ 5

c) $2n + m$ ◯ $2m + n$

d) $7n$ ◯ $5m$

8

$a = 10$

Write the expressions in order, starting with the smallest value.

| $5a$ | $a + 5$ | $\frac{a}{5}$ | a^2 |

☐ ☐ ☐ ☐

9

$a = 15$

Write three different algebraic expressions that give a value of 40

_____ _____ _____

10 Complete the table.

x	$5x$	$5x - 1$
2		
10		
12		
	25	
		34
		99

Vibrant Summer – Vocab 2

Tick the word that is an antonym (opposite) to the word in italics.

- *vibrant*

  Tick one.

energetic	☐
dull	☐
peaceful	☐
frantic	☐

- *relax*

  Tick one.

tense	☐
calm	☐
asleep	☐
awake	☐

Use one of the antonyms in a sentence to show your understanding.

Tick the word that is a synonym (similar) to the word in italics.

- *parasol*

  Tick one.

sunshade	☐
shelter	☐
tent	☐
sail	☐

- *vacation*

  Tick one.

relaxation	☐
job	☐
rest	☐
holiday	☐

Use one of the synonyms in a sentence to show your understanding.

Vibrant Summer – SPAG 1

Standard English

Select the sentence from each pair that uses Standard English.

- We was on holiday abroad. ○
- We were on holiday abroad. ○

- You is very lucky to be able to visit these fantastic places. ○
- You are very lucky to be able to visit these fantastic places. ○

- I is going to Spain this year. ○
- I am going to Spain this year. ○

Clauses

Tick to show whether the underlined clause is a main clause or a subordinate clause in each sentence.

	Main clause	Subordinate clause
Although it was early in the morning, <u>there were still people arriving at the market</u>.		
<u>She took her camera everywhere</u> because she never knew what might catch her eye.		
The stalls were bursting at the seams with produce <u>however it was all perfectly organised</u>.		

	Marlborough Primary Academy	Class 5/6D	Home Learning	Thursday 18/6/20

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

More DADWAVERS!
We have used DADWAVERS! in class as a way of making our writing more interesting.

I've started a story - which DADWAVERS! Sentence openers have I already used? Can you finish the sory using the missing DADWAVERS!

Maths

Percentages of an amount
Watch the video – remember to pause and try the calculations and problems when you are asked to.

Then try the workaheet before you check your answers

If you get stuck don't forget to send me or Mr. Bright a dojo message.

Video
Worksheet
Answers

STEM/Creative

What can you find out about rainforests? These amazing places are home to thousands of different plants and animals. Show what you have found out by making a fact sheet, diagram or poster. Share what you have learned on your portfolio.

Morning maths – Thursday 18/6/20

2 3 6 x 8 7

$$2\ 3\ 6$$
$$\times\ 8\ 7$$
$$\overline{}$$

$$\overline{}$$

Find 25% of 840.

Hint: 25% = 1/4

12 – 5.4

What are the next 4 numbers in this sequence?
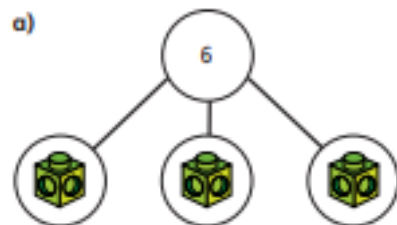
16, 11, 6, __, __, __, __

Hint – use a number line for negative numbers

Solve simple one-step equations

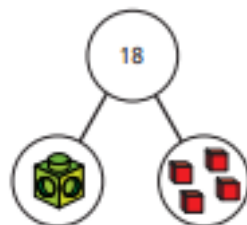**1** Write an equation for each part-whole model.

Work out the value of the multilink cube in each equation.

a)

6

⬡ = ☐

b)

18

⬡ = ☐

2 There are some counters under the cup.

There are 10 counters in total.

a) If c is the number of counters under the cup, explain why
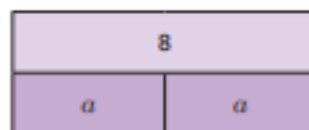
$c + 6 = 10$

b) Work out the value of c.

$c = $ ☐

c) How many counters are under the cup?

☐

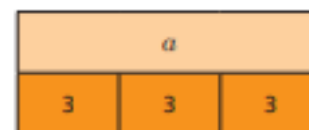**3** Write algebraic equations to represent the bar models.

Find the value of a in each one.

a)

8	
a	a

$a = $ ☐

c)

a		
3	3	3

$a = $ ☐

b)

15	
a	10

$a = $ ☐

d)

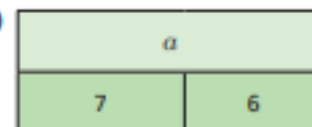| a	
7	6

$a = $ ☐

4 Nijah is solving the equation $x - 8 = 20$

$$x - 8 = 20$$
$$x = 20 - 8$$
$$x = 12$$

What mistake has Nijah made?

_____

_____

5 Solve the equations.

a) $x + 7 = 20$

$x = \boxed{}$

b) $10y = 80$

$y = \boxed{}$

c) $4m = 22$

$m = \boxed{}$

d) $g - 3 = 15$

$g = \boxed{}$

e) $32 = t - 5$

$t = \boxed{}$

f) $\frac{u}{6} = 3$

$u = \boxed{}$

6 Filip thinks of a number.

He subtracts 5 from his number.

He ends up with 10

Write an algebraic equation to represent Filip's problem.

_____

Solve the equation to work out his number.

$\boxed{}$

7 Dexter builds a tower.

Each block is $2a$ high.

He uses 7 blocks.

$2a$
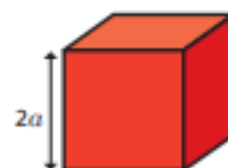
The total height of his tower is 42 cm.

Write an equation to represent the height of Dexter's tower and find the value of a.

$a = \boxed{}$ cm

8 Work out the value of each shape.

Write the equations that you solved to find the value of each shape.

★	♥	★	♥	
★	▲	★	★	
♥	♥	♥	♥	= 40
▲	★	♥	▲	= 20

= 32

♥ = $\boxed{}$ ★ = $\boxed{}$ ▲ = $\boxed{}$

Work out the missing total of each row and column.

Compare answers with a partner.

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

DADWAVERS!

Description
Action
Dialogue
Where
Adverb
Verb
Estimation of time
Rhetorical Question
Simile or Metaphor
! Exclamation or onomatopoeia

Which DADWAVERS! Have I already used? Use the rest to finish.

In the very darkest corner, the very bottom of the wardrobe, it waited.

How long would it be till it could feed? Bedtime was hours away.

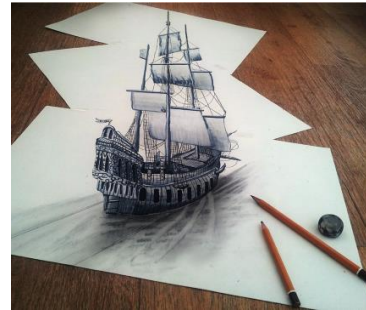Silently the creature waited, licking its fangs and lips in anticipation.

,

| D | A | D | W | A | V | E | R | S | ! |

	Marlborough Primary Academy	Class 5/6D	Home Learning	Friday 19/6/20

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

Friday - big write
Use the picture as a stimulus to continue writing the story - into your exercise book or logon to Purple Mash and complete the Ship2do

Maths

Friday's problem solving challenge
Today's problems are all linked to time and football.

Watch this video clip and then work through the activities

Try the on-line quiz at the same website and then have a go at the worksheets
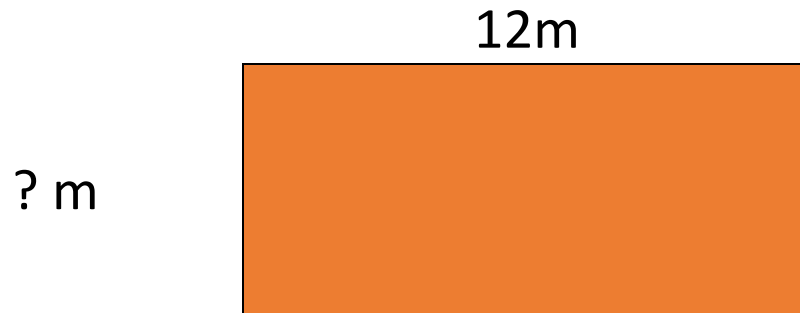
Friday's Problems

STEM/Creative

Some plants are edible.   That means we can eat them!   But we eat different parts of different plants.
Make a poster to show roots, leaves, stems, fruits, seeds and flowers that we eat.

Morning maths – Friday 19/6/20

The area of this shape is 120m² . What is the missing length?

12m

? m

Hint –area = length x width

What is 3/4 ÷ 3

$$\frac{3}{4} \div 3 = \underline{\quad}$$

Criss-cross (t x b = t   b x t = b)
Can you simplify

What is 1/5 x by 12 – don't forget to simplify your answer.

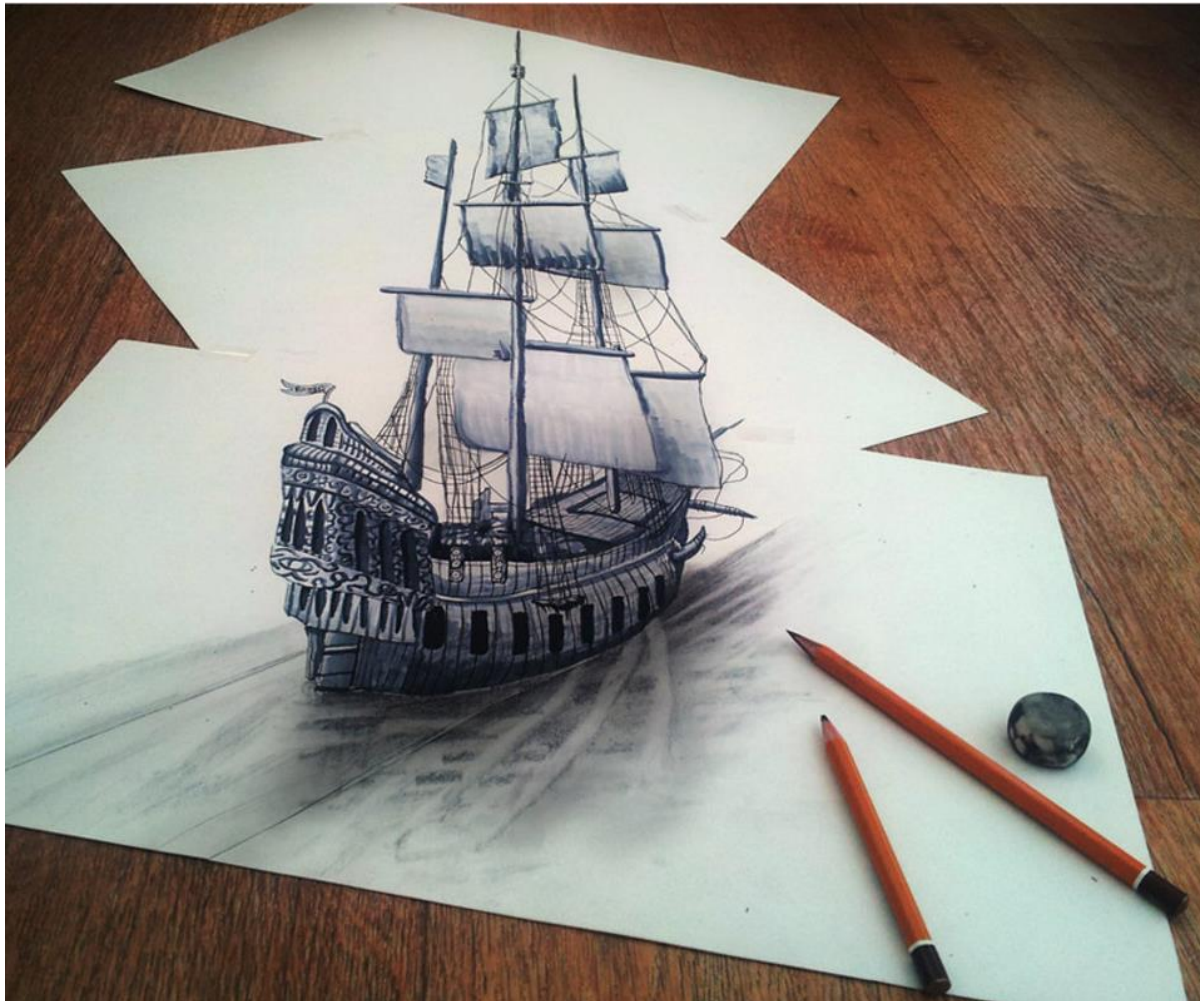$$\frac{1}{5} \times 12 = \underline{\quad}$$

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

---

37 | 1 0 3 9 7

37 – 1
74 – 2
111 – 3
148 – 4
185 – 5
…   - 6
…   - 7
…   - 8
…   - 9
…   - 10

He had been working on the drawing for hours, locked away in complete silence in his study, letting his imagination run wild. The only sound that could be heard was the soothing scratching of his pencil on the textured paper.

When he had finished, George stood up and took a step back, proud of the work he had done. He was an extraordinary artist, more extraordinary than any other artist in the entire world!

As George spoke the magic word, the ship's sails started to flutter as if a strong breeze blew through the room. He loved this moment, seeing his creations come to life...

How many DADWAVERS! can you use in your story? – Cross them off as you write.
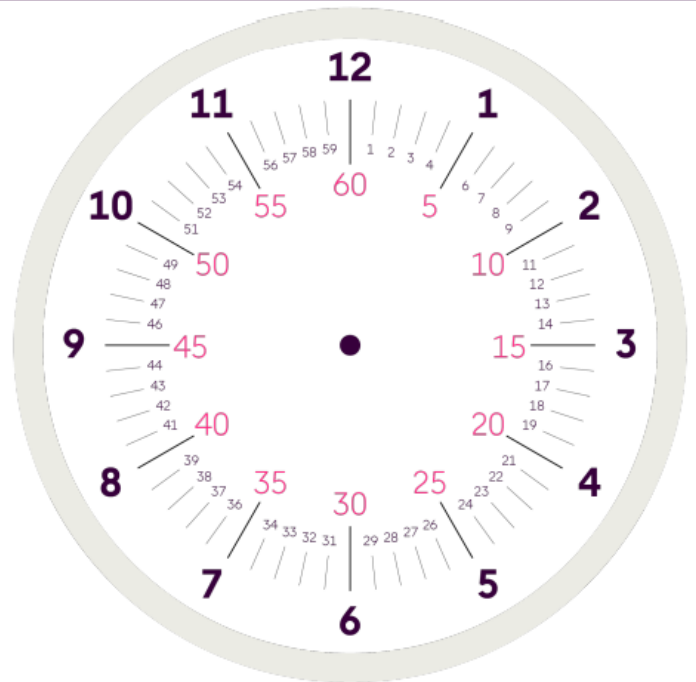
| D | A | D | W | A | V | E | R | S | ! |

Q1.

Use the blank clock face like a number line to help you work out each answer.

a) 14 minutes + 23 minutes

b) 6 minutes + 19 minutes

c) 36 minutes + 24 minutes

d) 42 minutes + 34 minutes

e) 39 minutes + 56 minutes

f) 19 minutes + 31 minutes + 27 minutes

g) 36 minutes + 42 minutes + 51 minutes

Q2.

During a football match, Harry Kane plays 86 minutes of the match.

How long is this in hours and minutes?

Kick-off   Half-time   Full-time

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90

Q3.

Harry Wilson plays 75 minutes of the match.

How long is this in hours and minutes?

Kick-off									Half-time									Full-time
0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90

Q4.

How long do Harry Kane and Harry Wilson play in total?

Harry Kane	86 minutes
Harry Wilson	75 minutes

Full time!

This week's web-links	
Monday Maths Video	https://vimeo.com/425603587
Monday Maths worksheets	file://cserver/Teacher/adore/Documents/Desktop/2%20-%201%20Remote%20learning/200615/Lesson%201%20-%20Find%20a%20rule%20-%20two%20step%202019.pdf
Monday maths answers	file://cserver/Teacher/adore/Documents/Desktop/2%20-%201%20Remote%20learning/200615/Lesson%201%20Answers%20-%20Find%20a%20rule%20-%20two%20step%202019.pdf
Tuesday Maths - video	https://vimeo.com/425603866
Tuesday Maths activity 1	file://cserver/Teacher/adore/Documents/Desktop/2%20-%201%20Remote%20learning/200615/Lesson%202%20-%20Forming%20expressions%202019.pdf
Tuesday Maths answers	file://cserver/Teacher/adore/Documents/Desktop/2%20-%201%20Remote%20learning/200615/Lesson%202%20Answers%20-%20Forming%20expressions%202019.pdf
Wednesday Maths - video	https://vimeo.com/425603939
Wednesday maths – activities 1	file://cserver/Teacher/adore/Documents/Desktop/2%20-%201%20Remote%20learning/200615/Lesson%203%20-%20Substitution%202019.pdf
Wednesday maths answers	file://cserver/Teacher/adore/Documents/Desktop/2%20-%201%20Remote%20learning/200615/Lesson%203%20Answers%20-%20Substitution%202019.pdf
Thursday maths – video	https://vimeo.com/425605040
Thursday maths worksheet 1	file://cserver/Teacher/adore/Documents/Desktop/2%20-%201%20Remote%20learning/200615/Lesson%204%20-%20Solve%20simple%20one-step%20equations%202019.pdf
Thursday maths answers	file://cserver/Teacher/adore/Documents/Desktop/2%20-%201%20Remote%20learning/200615/Lesson%204%20Answers%20-%20Solve%20simple%20one-step%20equations%202019.pdf
Friday Maths	https://www.bbc.co.uk/bitesize/articles/zbdwg7h
Friday Worksheet	https://bam.files.bbci.co.uk/bam/live/content/zkp8qnb/pdf#sa-link_location=blocks&intlink_from_url=https%3A%2F%2Fwww.bbc.co.uk%2Fbitesize%2Farticles%2Fzbdwg7h&intlink_ts=1591958523380-sa