Shotton Hall Primary School
Working together to
S H I N E
Successful, Happy, Inspired and Nurtured towards Excellence

Maths – Today, I would like you to have a go at answering the questions on these Maths Mats. They draw on lots of different strands of Maths so have a go and try your best! Remember, you have your study guides to refer to if you get stuck!
See the answers below in the boxes provided.

Section 1
Round the following numbers to the nearest 10 million:

12 341 727 ⟶ `10 000 000`

25 000 000 ⟶ `30 000 000`

50 500 000 ⟶ `50 000 000`

Section 2
Draw a Venn Diagram to show the common factors of 24 and 56.

Factors of 24: 3, 12, 24
Common: 1, 2, 4, 8
Factors of 56: 7, 14, 28, 56

Section 3
What number, when multiplied by 5, is one third of the sum of 64 and 56?

`8`

Section 4
Calculate:

$\frac{3}{4} \times \frac{1}{6} = $ `$\frac{3}{24}$ or $\frac{1}{8}$`

$\frac{2}{3} \times \frac{2}{3} = $ `$\frac{4}{9}$`

$\frac{3}{8} \times \frac{8}{15} = $ `$\frac{24}{120}$ or $\frac{1}{5}$`

Section 5
Calculate, writing the answer as a decimal:

4) 7 2 9

`182.25`

Section 6
Draw (not to scale) two rectangles with the same area and different perimeters, writing the length of the sides.

Accept any reasonable answer.

Section 7
Calculate the unknown angle in this triangle:

not to scale

72°

`36°`

Section 8
A range of answers. Here are some examples:

2a + b = 8   a = `1`   b = `6`

2c − d = 8   c = `5`   d = `2`

Section 1
Janek has £23. He owes his mother £42. Explain his financial situation.

`£19 in debt or similar explanation.`

Section 2
Calculate in your head:

418 + 381 = `799`   319 + 575 = `894`

819 - 602 = `217`   772 - 193 = `579`

Section 6
Calculate the volume of the cuboid:

3cm
8cm
7cm

`168cm³`

Section 3
Calculate:

12 x (3 + 8) = `132`   (14 + 7) x 7 = `147`   (23 + 13) ÷ 3 = `12`

Section 7
Measure the diameter and circumference of this circle:

Diameter: `4cm`

Circumference: `12.57cm (approx)`

Section 4
Circle all the equivalent fractions and decimal equivalents to $\frac{3}{8}$

0.3 $\frac{6}{16}$

0.375 $\frac{12}{32}$

$\frac{1}{3}$ $\frac{9}{24}$

Section 5
A piece of string is divided into eight pieces. The string is 123m long. How long will be each piece of string in metres, rounded to 2 decimal places?

`15.38m`

Section 8
Find the mean of these numbers:

24   18   37   82   17   26   `34`

Section 1
Use these clues to find the number:

- The number has 7 digits.
- Each digit is different.
- The number is a multiple of 5.
- There are no zeros.
- The ten thousands digit is twice the hundreds thousands digit. The thousands digit is twice the hundreds digit. The hundreds digit is twice the tens digit.
- The number is more than 8 million.
- The sum of the ten thousands and hundred thousands digits is the same as the millions digit.
- All the even digits are next to each other.

9 368 425

Section 2
Calculate:

		6	2	1	7
	x			2	6
	3	7	3	0	2
1	2	4	3	4	0
1	6	1	6	4	2

Section 3
Madison goes shopping with £30. She buys three t-shirts costing £7.50 each. She then takes £20 out of the bank, and buys lunch costing £12.30. How much does she have left?

£15.20

Section 4
Calculate:

$\frac{1}{2} \div 4 = \boxed{\frac{1}{8}}$ $\frac{2}{3} \div 5 = \boxed{\frac{2}{15}}$

Section 5
A shop is offering a 20% discount. What fraction of the full price is to be paid?
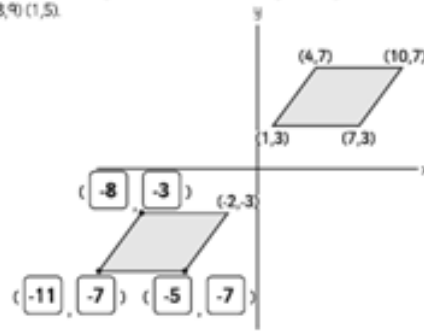
$\frac{4}{5}$

Section 6
A bottle contains 1.5 litres of lemonade. It is shared between 12 children. How much does each child get in millilitres?

125ml

Section 7
Draw a parallelogram on this coordinates grid using the coordinates: (1,1) (8,5) (8,9) (1,5).

(4,7)   (10,7)

(1,3)   (7,3)

(-8 -3)   (-2,-3)

(-11 -7) (-5 -7)

Section 8
a and b are whole numbers between 10 and 20. Write a calculation showing the possible values of a and b where:

One of the following:

a = 19, b = 14; a = 18, b = 13; a = 17, b = 12; a = 16, b = 11

English – Today I would like you to have a go at some creative writing. Think carefully about all of the SPaG related activities you have done over the past few weeks and try to think about the success criteria we set when we do any piece of writing. Give your writing to a parent/grown up to read once you are done to see what they think! Try your best 😊

I hope that you enjoyed writing about The Island of Lights! I am sure you created some fantastic pieces of writing. We would love to see some on our school Facebook page if your parents/grown ups are able to upload some!

Foundations Subject – PSHE – Today, we're going to think about Friendship. This is particularly important as we are coming near to the end of your time in primary school and as you are preparing for secondary school. You all have good friends and you all know how to be a good friend. I would like you to read the scenario below and write a little bit about what you think should happen next. You may even want to discuss it with an older brother/sister or a grown up at home first.

A group of friends are in the playground, practising a dance routine they have learnt. The six children are all from the same class.

Emily has just finished her lunch and comes over to join in. Ava turns to Emily and says, "You're too late! You aren't allowed to join in - go away!"

Emily is really upset and runs away; she sits on a bench on her own and starts to cry. The children carry on practising and ignore Emily.

The bell rings for the end of lunchtime and Emily goes back into class, still feeling upset. Ava is laughing and says that she can't be in the show anymore.

There is no definitive right or wrong answer to solving this problem. I am sure you thought of various different ways this conflict could be resolved. Thinking about situations like this could help you in future.