Use your knowledge to answer these questions with Maurice. Molly. Mo and Mia, four monsters who love maths!

## NUMBER AND PLACE VALUE

1) Molly is making numbers with different items. She has decided to use buttons for ones, unicorn horns for tens and moon rocks for hundreds.
a) What numbers has she made?

b) Can you use moon rocks. unicorn horns and buttons to draw the number 135 in this space?
2) Can you split the numbers below each monster into hundreds, tens and ones? An answer has been added for you to show you how it works.


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## FRACTIONS

1) Write the fractions for the following:
a) How many of this monster's spots are grey?
b) How many of this monster's eyes are open?
c) How many of this monsters heads have horns?

2) Can you show $\frac{1}{4}$ on each of these shapes by shading in
the squares?


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## MONEY

1) Mia has 80 p in total in silver coins. In one hand, she has a 50 p coin. What coins could she have in the other hand?

Write all the possibilities.

2) Maurice has $£ 5$ and he wants to buy two items from the joke shop.

Which two items could he buy? Write down all the combinations.


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## POSITION AND DIRECTION

1) The monsters are packing for a trip but they are very messy and their belongings are all over the place.

Can you help the monsters find them using the coordinate grid below?

a) What are the coordinates of:

The comb?


The horn?

b) Molly thinks the coordinates of the toothbrush
 Is she correct?

## TOP TIP!

When using coordinates. you always read along the $x$ axis before reading up or down the y axis. A common way to remember this is "Go along the corridor and up (or down) the stairs".

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## BONUS ACTIVITIES

1) The monsters are investigating square numbers. When you square a number. you times it by itself. For example, $2^{2}=2 \times 2=4$

Can you calculate the next 3 square numbers? Use the grids to help you.

$2 \times 2=4$

$4 \times 4=\square$

$5 \times 5=\square$

$6 \times 6=\square$
2) Mo says that prime numbers are only divisible by themselves and 1. Mia has written some numbers that she thinks are prime.

$$
\text { 3.5.7.9.11. 13. } 15
$$

Is she correct?

3) Can you solve these number problems?
a) Which 5 different 1 -digit numbers add together to make 15 ?
b) Which 3 different 1 -digit numbers add up to 23 ?

$\qquad$


## ANSWERS

## NUMBER AND PLACE VALUE

1) a) Molly has made 324 and 242.
b)

2) 



## FRACTIONS

1) a) $\frac{2}{8}$ or $\frac{1}{4}$
b) $\frac{3}{5}$
c) $\frac{2}{4}$ or $\frac{1}{2}$
2) You could have shaded in any 1.4 or 6 squares in each case.


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## ANSWERS

## MONEY

1) 20 p 10 p 20p 5p 5p

10p 10p 10p
10p 10p 5p 5p

10p 5p 5p 5p 5p
5p 5p 5p 5p 5p 5p
2) Different combinations could include glow-in-the-dark slime and monster teeth. glow-in-the-dark slime and fake tail. monster teeth and fake tall. monster teeth and horn headband.

## POSITION AND DIRECTION

1) a) Comb $=(1.5)$

Glasses $=(5.6)$
Horn $=(4.4)$
b) Molly has read her coordinates
incorrectly by reading the y axis then
the x axis. The correct coordinates are (6.1).

## BONUS ACTIVITIES

$$
\text { 1) } 4 \times 4=16
$$

$5 \times 5=25$
$6 \times 6=36$
2) 9 is not a prime number because $3 \times 3$ is 9.15 is not a prime number because $3 \times 5=15$.
3. 5. 7.11 and 13 are prime numbers.
3) a) $1+2+3+4+5=15$
b) $6+8+9=23$

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