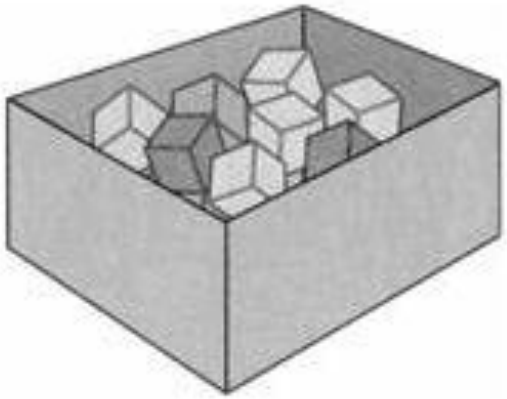
RECALL

There are 24 coloured cubes in a box.

Three-quarters of the cubes are red.

Four of the cubes are blue.

The rest are green.



1) How many green cubes are in the box?

2) One more blue cube is put into the box.

What fraction of the cubes in the box are blue now?

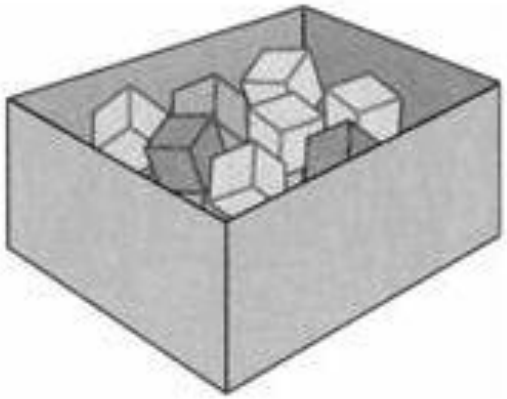
RECALL ANSWERS

There are 24 coloured cubes in a box.

Three-quarters of the cubes are red.

Four of the cubes are blue.

The rest are green.



1) How many green cubes are in the box? 2 green cubes

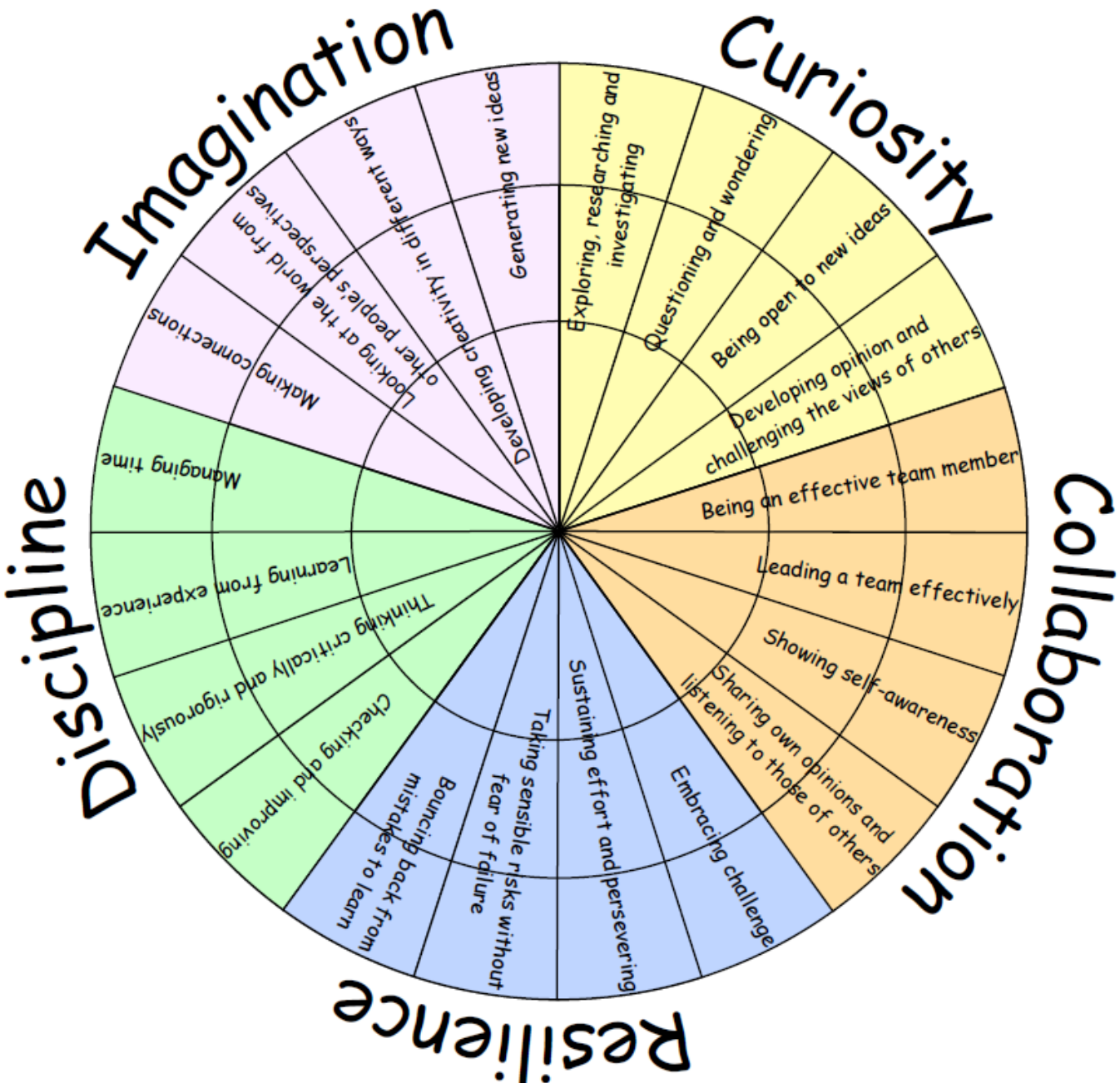
2) One more blue cube is put into the box.

What fraction of the cubes in the box are blue now? $\frac{5}{25}$ are blue ➔ $\frac{1}{5}$ are blue

I CAN USE MY FRACTIONS KNOWLEDGE TO SOLVE A RANGE OF PROBLEMS

Fractions

LEARNING HABITS?



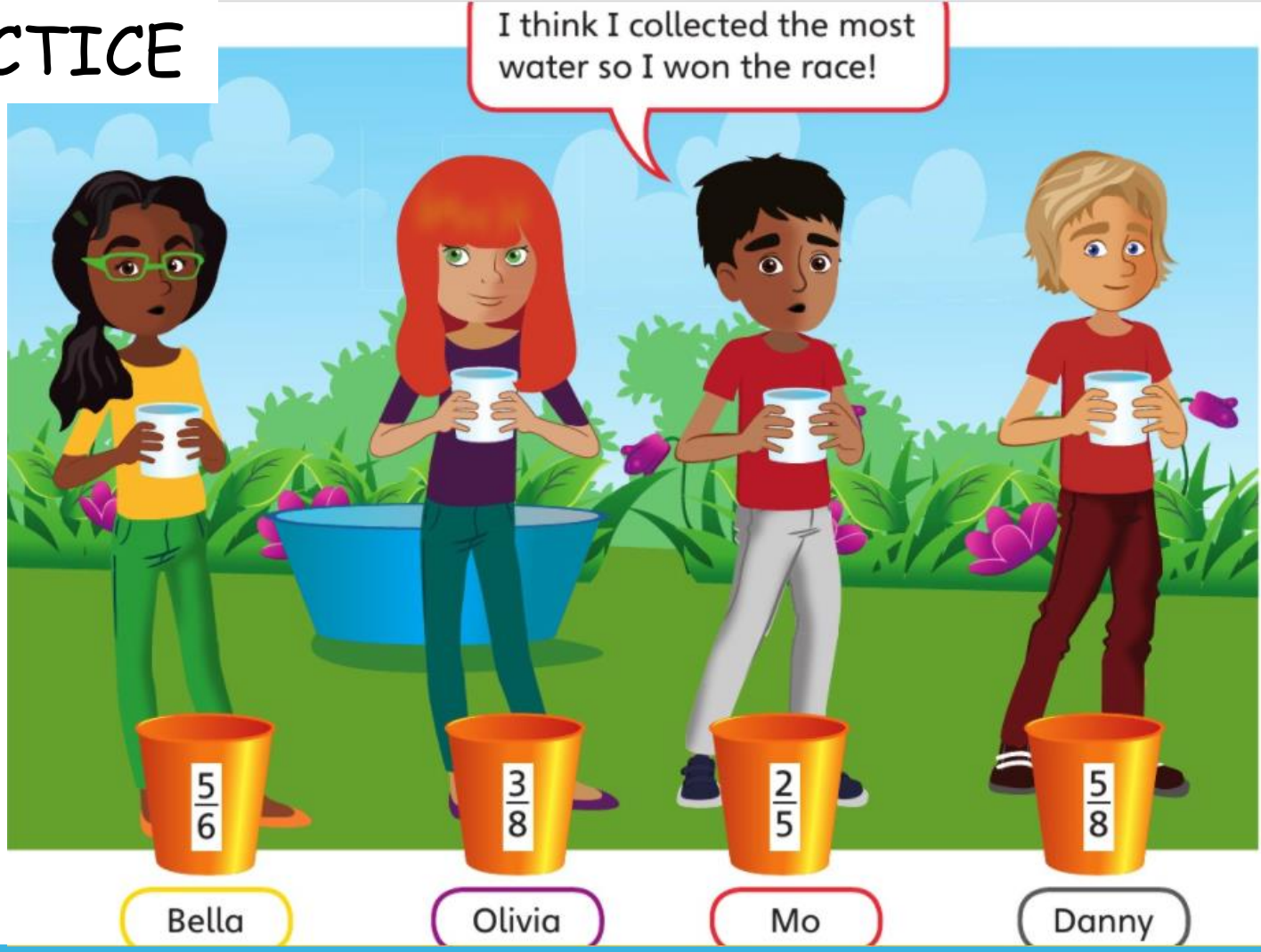
GUIDED PRACTICE

1) Who won the race?

Order the fractions from largest to smallest to prove your answer.

2) Each bucket can hold 4800ml of water.

How many millilitres of water did Olivia and Bella collect in total?



In the next race, Mo collects 3/4 of a bucket.

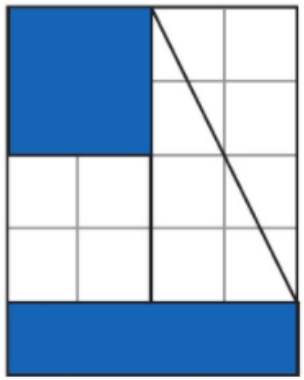
Danny collects half as much as Mo.

What fraction of a bucket does Danny collect?

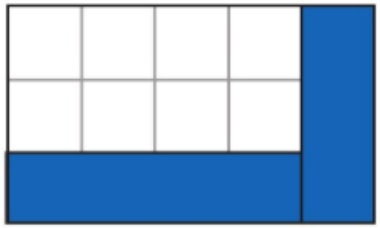
DIVE DEEPER 1

1) Which shape has the greatest fraction shaded?

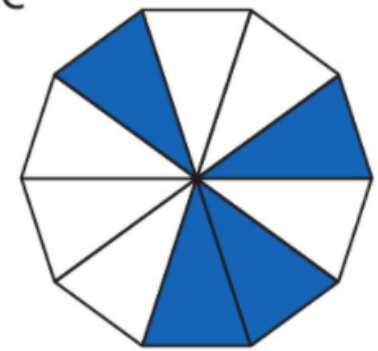
A



B



C



2) Use all the digit cards to make fractions that complete the statement.

6	4	3	2

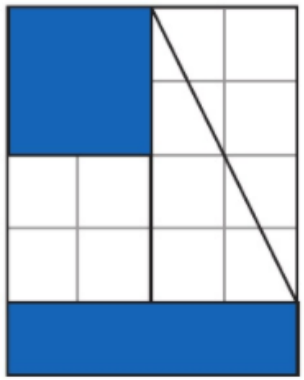
____/____ < 1/2 < ____/____

How many solutions can you find?

DIVE DEEPER 1 ANSWERS

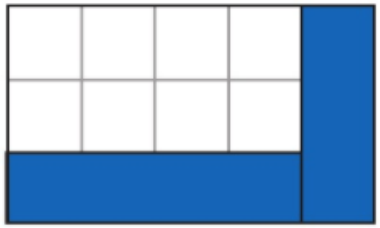
1) Which shape has the greatest fraction shaded?

A



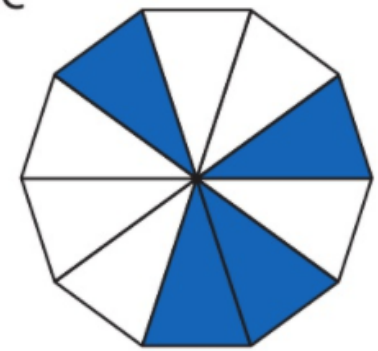
8/20

B



7/15

C



4/10

2) Use all the digit cards to make fractions that complete the statement.

6	4	3	2

2/6 < 1/2 < 3/4

How many solutions can you find?

DIVE DEEPER 2

3) Zac and Jamilla made 108 cookies to sell for charity.

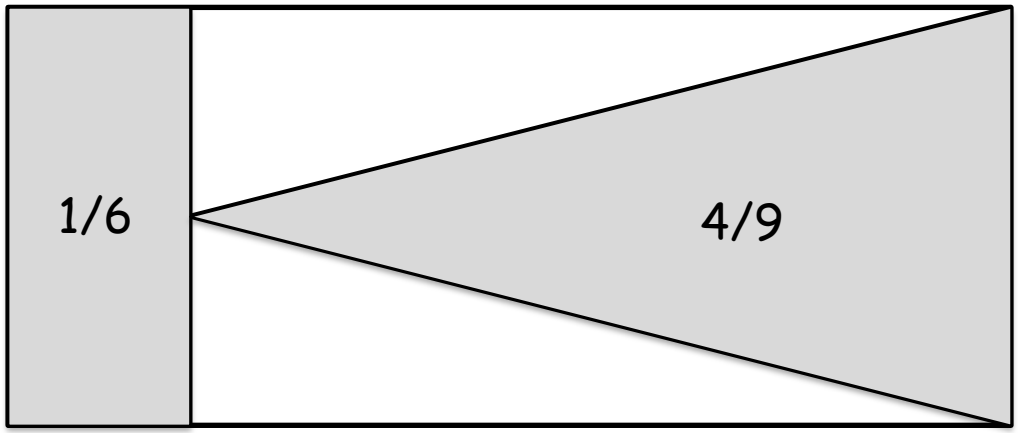
Zac sold 4/9 of the cookies.

Jamilla sold 1/3 of the cookies.

a) How many cookies did they sell altogether?

b) What fraction of cookies were left?

4) What fraction of the rectangle is not shaded?



DIVE DEEPER 2 ANSWERS

3) Zac and Jamilla made 108 cookies to sell for charity.

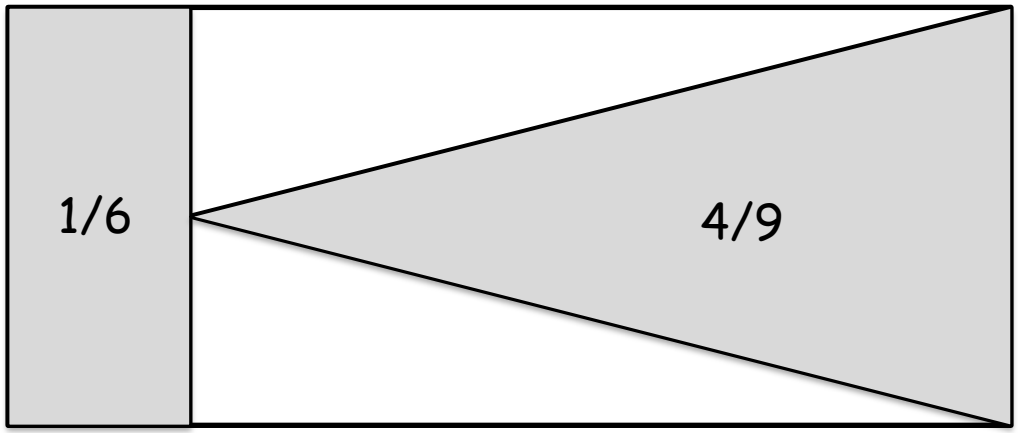
Zac sold 4/9 of the cookies.

Jamilla sold 1/3 of the cookies.

a) How many cookies did they sell altogether? 84 cookies

b) What fraction of cookies were left? 24/108 = 2/9

4) What fraction of the rectangle is not shaded? 7/18



DIVE DEEPER 3

5) Olivia has some money to make lemonade for her friends.

She spends £2.20 on sugar and £2.80 on lemons.

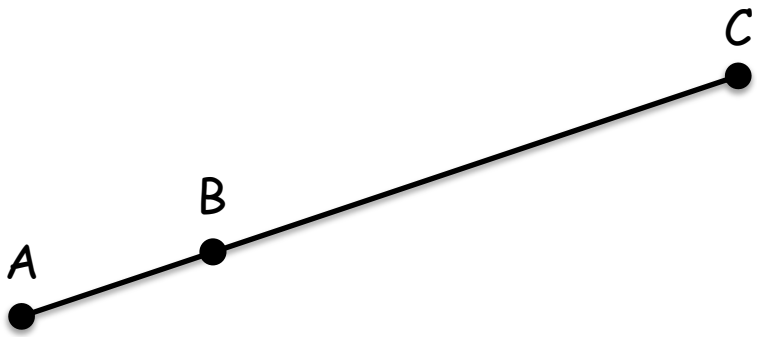
She has 3/5 of the money left.

How much money did she have to start with?

6) The distance between A and B is 1 1/4km.

The distance between A and C is 4 3/5km.

What is the distance from B to C?



DIVE DEEPER 3 ANSWERS

5) Olivia has some money to make lemonade for her friends.

She spends £2.20 on sugar and £2.80 on lemons.

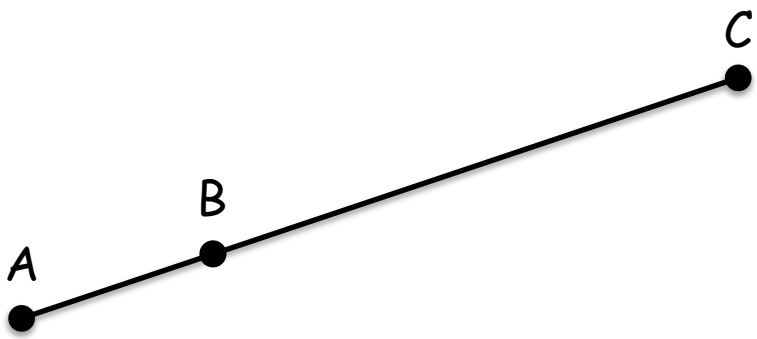
She has 3/5 of the money left.

How much money did she have to start with? £12.50

6) The distance between A and B is 1 1/4km.

The distance between A and C is 4 3/5km.

What is the distance from B to C? 3 7/20km



DIVE DEEPER 4

7) In a bag of marbles, 38 are green and 22 are red.

The remaining 3/8 of the marbles are yellow.

How many marbles are in the bag altogether?

8) Use both the digits 3 and 4 to make the largest possible answer to each calculation.

____/8 x 2/____ =

____/5 + ____/4 =

____/10 + ____ =

DIVE DEEPER 4 ANSWERS

7) In a bag of marbles, 38 are green and 22 are red.

The remaining 3/8 of the marbles are yellow.

How many marbles are in the bag altogether? 96 marbles altogether

Green and red					yellow		
38 + 22 = 60					36		
12	12	12	12	12	12	12	12
8 x 12 = 96							

8) Use both the digits 3 and 4 to make the largest possible answer to each calculation.

4/8 x 2/3 = 8/24

3/5 + 4/4 = 1 3/5

3/10 + 4 = 4 3/10