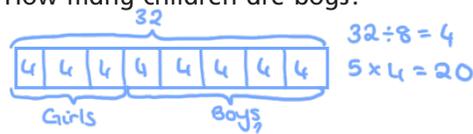


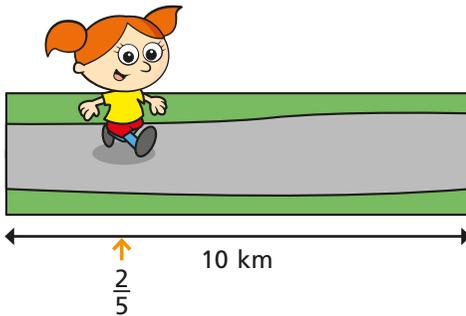
# Fractions of a set of objects (3)

1 In a class of 32 children, three eighths are girls.  
How many children are boys?

20



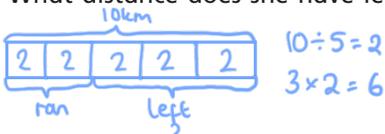
2 Alex is taking part in a 10 km race.



She has run two fifths of the race.

What distance does she have left to run?

6 km

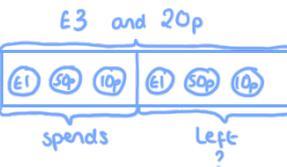


3 Filip has £3 and 20p.



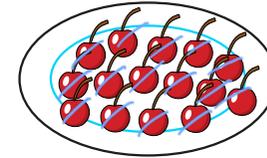
He spends half of his money.

How much does he have left?

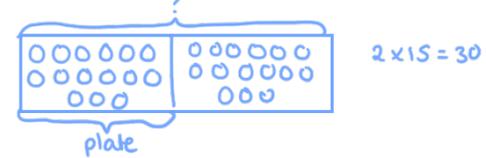


£ 1 and 60 p

4 Teddy opens a bag of cherries and puts  $\frac{1}{2}$  on a plate.



How many cherries were there in the whole bag?



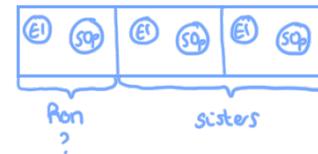
30

5 Ron has £4 and 50p.

He decides to share the money equally between himself and his two sisters.



How much money will each child get?



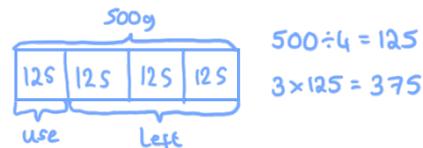
£ 1 and 50 p

6 A bag of potatoes weighs 500 g.

Annie's dad uses one quarter of the potatoes to make a shepherd's pie.



What is the mass of the potatoes left in the bag?



375 g

7 Dexter spends one third of his money.

He has these coins left.

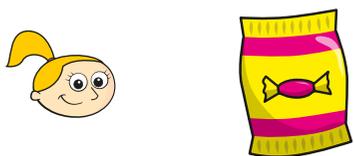


How much did Dexter spend?



£  and  p

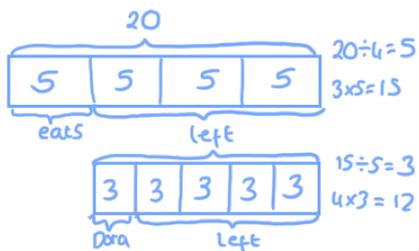
8 Eva has a bag of 20 sweets.



She eats  $\frac{1}{4}$  of the sweets.

She gives  $\frac{1}{5}$  of the sweets that are left to Dora and 2 sweets to her mum.

How many sweets does Eva have left?  $12 - 2 = 10$

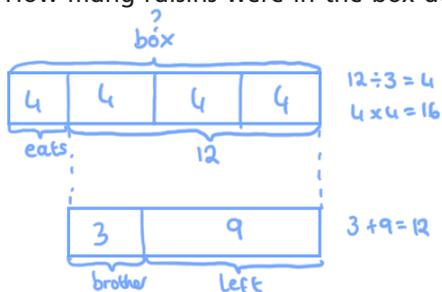


9 Whitney has a box of raisins.

She eats  $\frac{1}{4}$  of the raisins and gives 3 to her brother.

She has 9 raisins left.

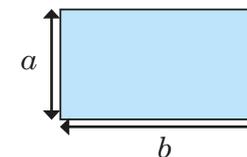
How many raisins were in the box at the start?



10 Here is a rectangle.

The perimeter of the rectangle is less than 30 cm.

Side  $a$  is one half of the length of side  $b$ .



a) Complete the table to show the different possible lengths of side  $a$  and side  $b$ .

Length of side $a$	Length of side $b$	Perimeter
1 cm	2 cm	6 cm
2 cm	4 cm	12 cm
3 cm	6 cm	18 cm
4 cm	8 cm	24 cm

b) What are the longest possible lengths of side  $a$  and  $b$ ?

side  $a$  4 cm

side  $b$  8 cm

c)



Talk to a partner about why Dexter is wrong.