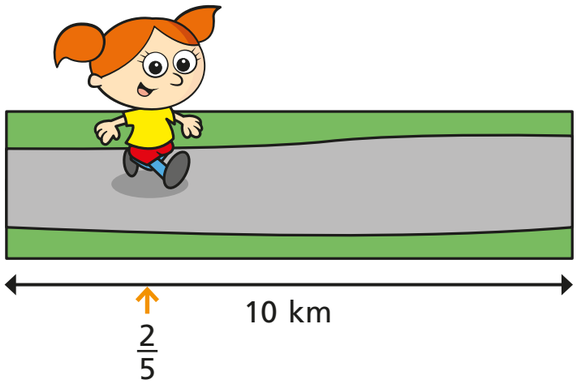
Fractions of a set of objects (3)

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

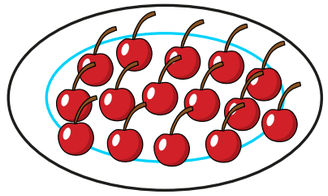
3 Filip has £3 and 20p.

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

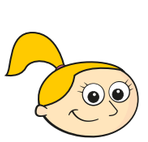
7 Dexter spends one third of his money.

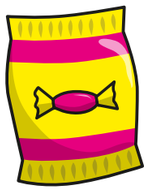
He has these coins left.

How much did Dexter spend?

£ 3 and 40 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? 10

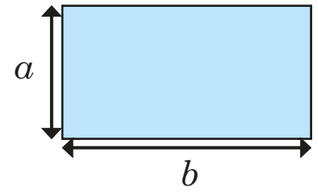
9 Whitney has a box of raisins.

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? 16

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.

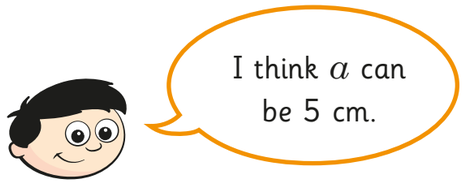
Length of side a	Length of side b	Perimeter
1 cm	2 cm	6 cm
2 cm	4 cm	12 cm
3 cm	6 cm	18 cm
4 cm	8 cm	24 cm

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.