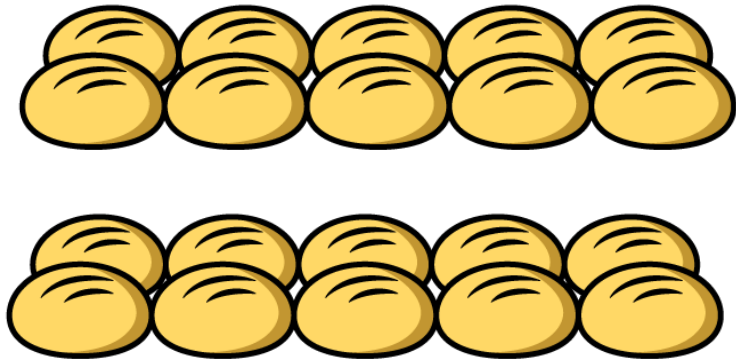


Problems of the Day 2019

Day
1

1 Sam has these bread rolls to sell.



He sells 14 of the bread rolls.

How many does he have left?

2 Emma has 3 tins of paint.

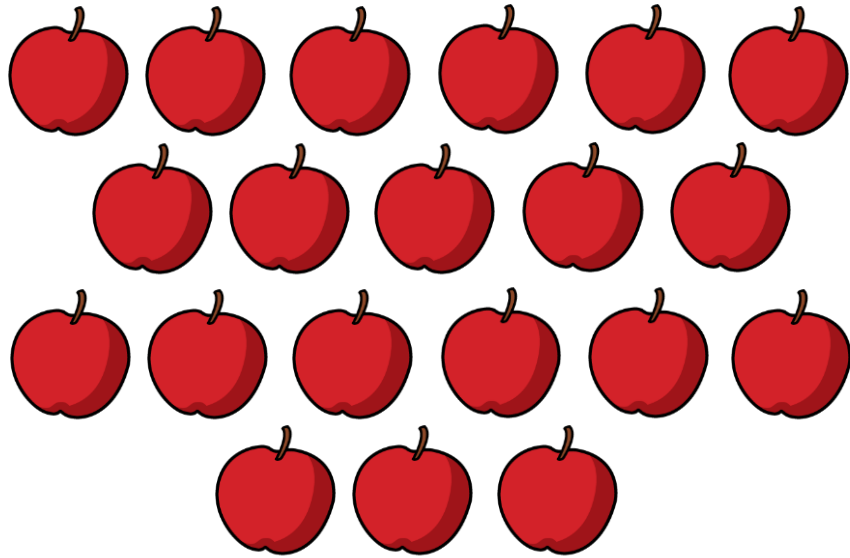


Each tin contains 5 litres of paint.

Emma uses 7 litres of paint.

How many litres of paint does Emma have left?

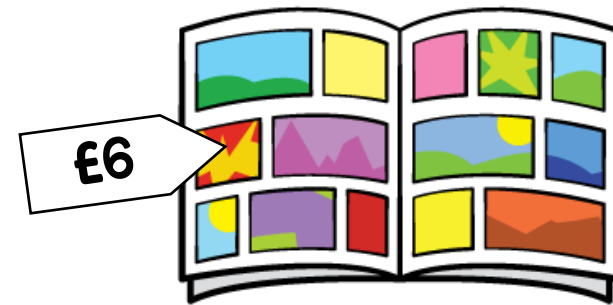
1 Lily has 20 apples.



She packs the apples into bags
of 4

How many bags does she need?

2 Gemma has £20
She buys 2 of these magazines.



How much money does Gemma
have left?

1 Max has 4 number cards.

25

35

45

55

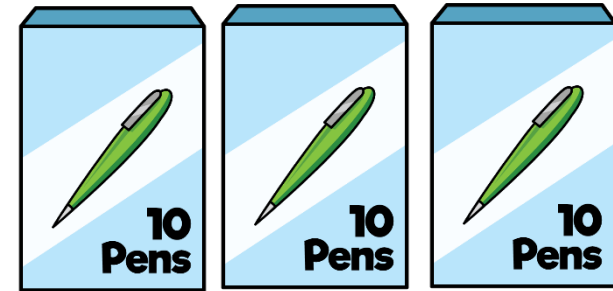
He uses them to make 2 calculations.

$$\boxed{} + \boxed{} = 70$$

$$\boxed{} - \boxed{} = 20$$

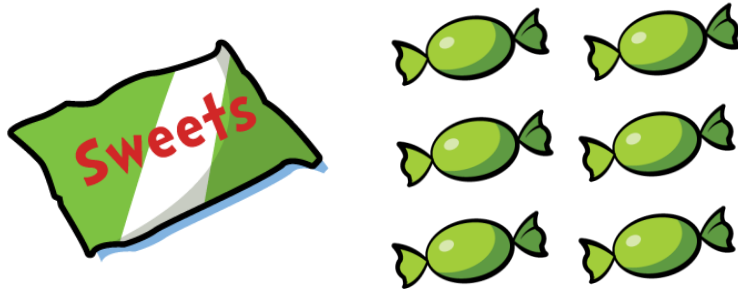
Work out where the numbers should go.

2 Mr Jones shares these pens between 2 classes.



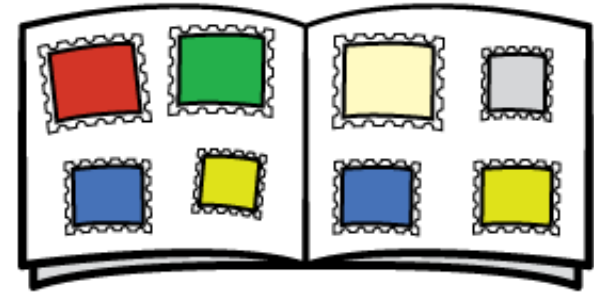
How many pens does each class get?

- 1** Rosie has 42 sweets in total.



How many sweets are in the bag?

- 2** Fred sells stamps.



On Monday he sold 25 stamps.

On Tuesday he sold 15 more stamps than he did on Monday.

How many stamps did he sell altogether?

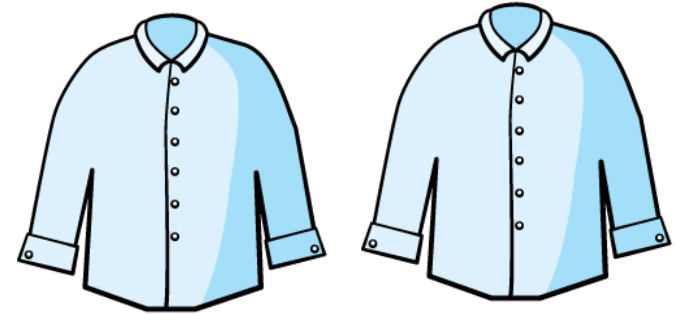
1 Complete the cards

$10 + 6$ is the same as $11 +$

$10 + 6$ is the same as $9 +$

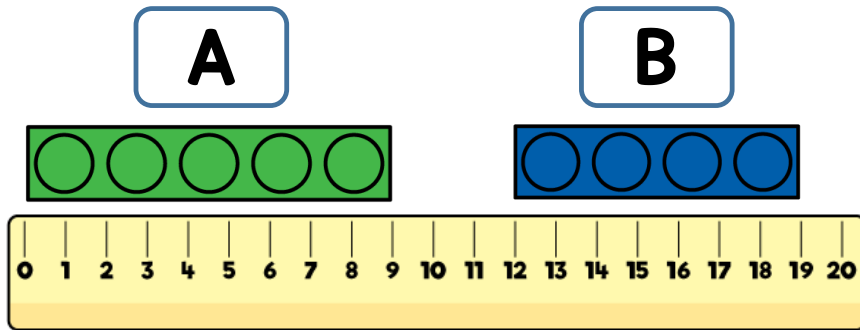
$15 - 3$ is the same as $20 -$

2 Two shirts cost £12



How much do 5 of the shirts cost?

- 1** Donna measures two toy bricks.



Which brick is the longest?

How much longer is the brick?

- 2** Here are some numbers.

18 23 37 45

Max adds together two of the numbers.

His answer ends with a 5

What two numbers did Max add together?

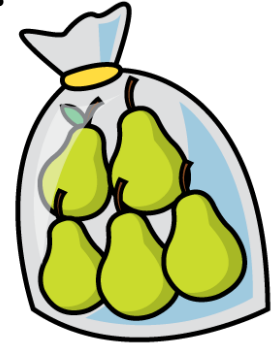
1 There are some cookies in a jar.

- Lee eats 5 of the cookies.
- Lucy eats 3 of the cookies.
- There are 9 cookies left in the jar.

How many cookies were in the jar at the start?

2 Amy has 32 pears.

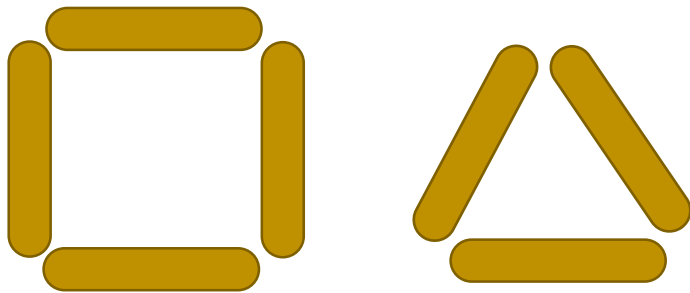
She puts the pears into bags of 5



She needs 8 bags of pears.

How many more pears does she need?

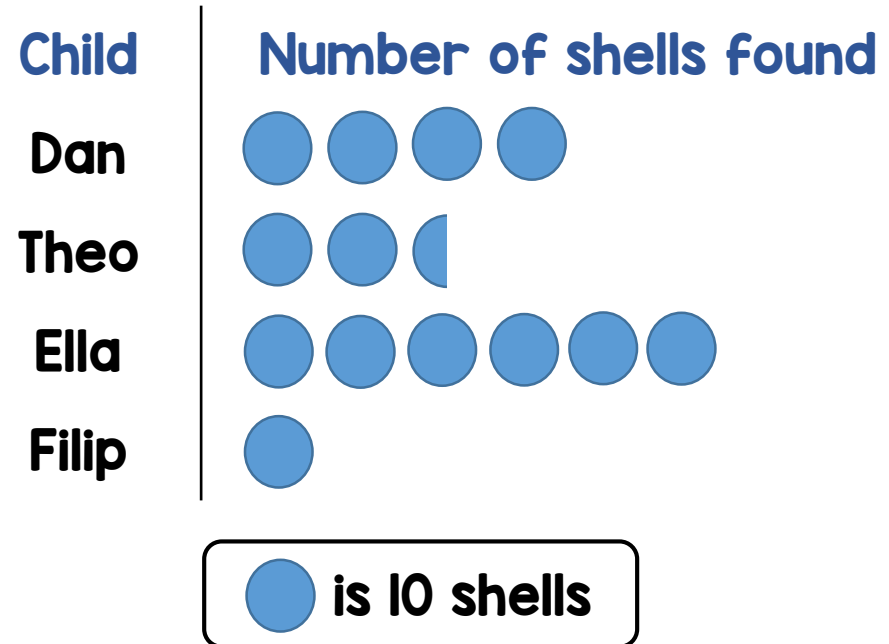
- 1** Mo makes some squares and triangles using lollipop sticks.



He makes 2 squares and 5 triangles.

How many sticks does he use?

- 2** The chart shows the number of seashells found by 4 children.



How many more shells did Ella collect than Theo?

Problems of the Day 2019

1 Uma writes down a number.

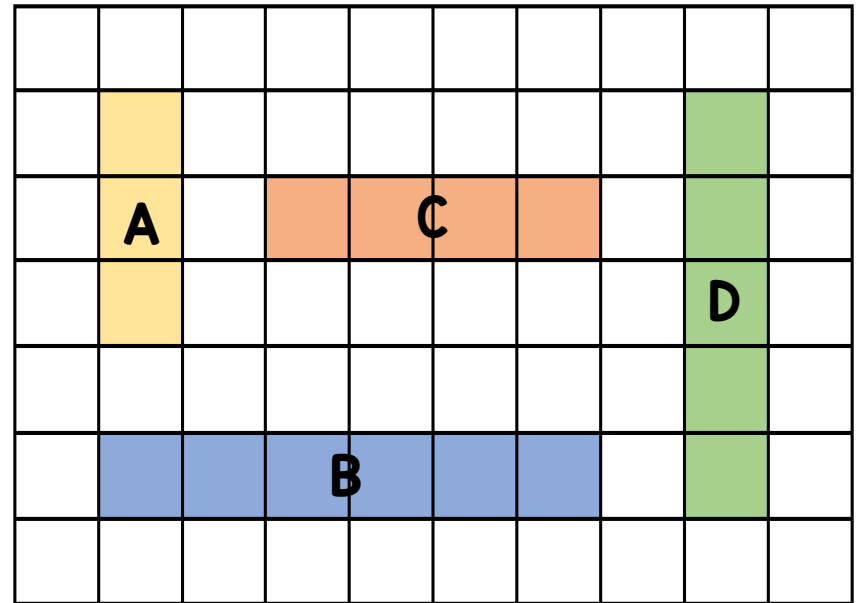
58

First she subtracts 2 from the number.

She then subtracts 2 tens from the number.

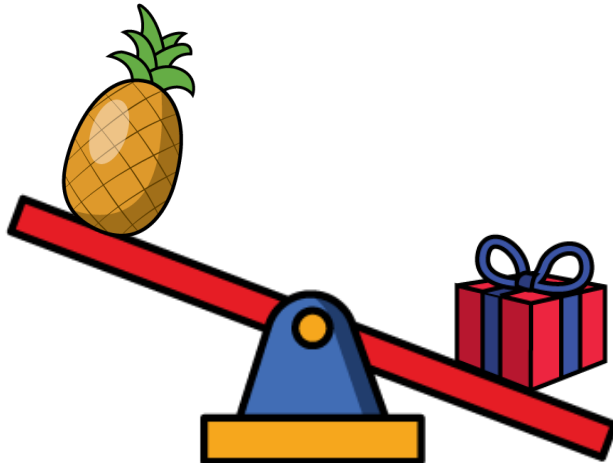
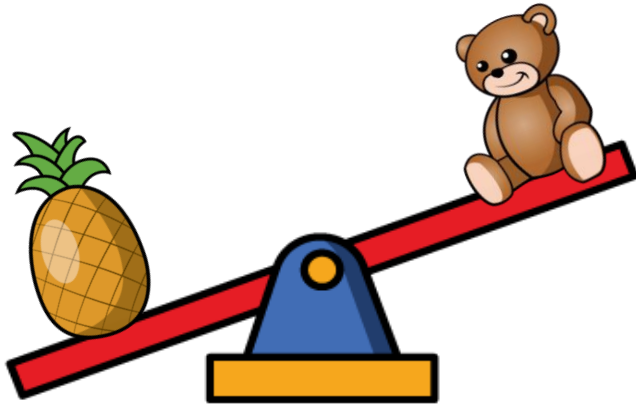
What is the sum of the digits in the new number?

2 Put the shaded bars in order of their lengths.

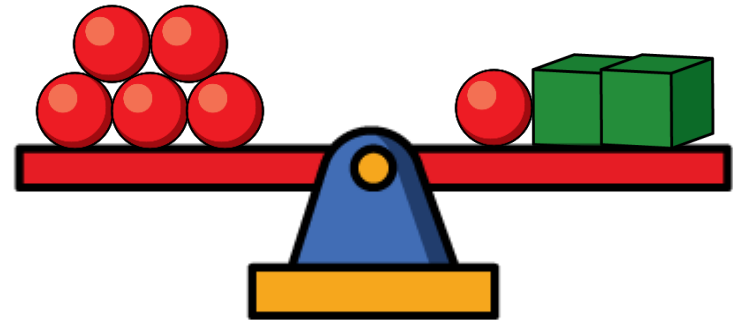


Start with the bar with the longest length.

1 Which item is the heaviest?



2 The mass of a  is 5 kg



What is the mass of a  ?

Problems of the Day 2019

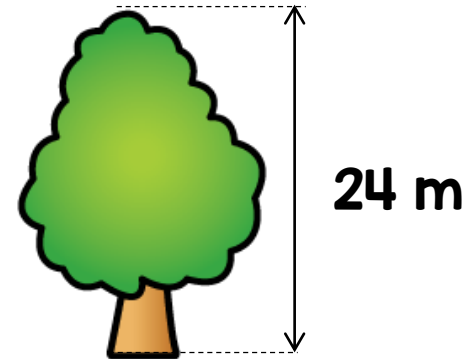


1 There are 26 children in a class.

There are 17 girls in the class.

How many more girls than boys are in the class?

2 The tree is 18 metres shorter than the lighthouse.



What is the total height of the tree and lighthouse?

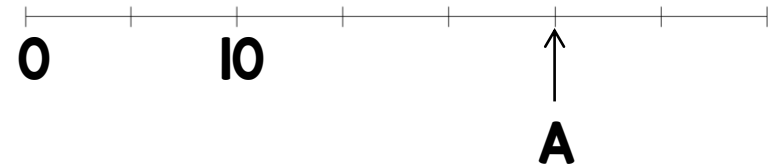
1

$$\text{Blue Circle} + \text{Blue Circle} + \text{Blue Circle} = 15$$
$$\text{Yellow Triangle} + \text{Yellow Triangle} = 18$$

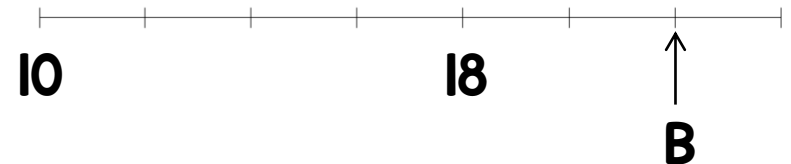
Work out the value of

$$\text{Yellow Triangle} \times \text{Blue Circle}$$

2 Work out the value of A.

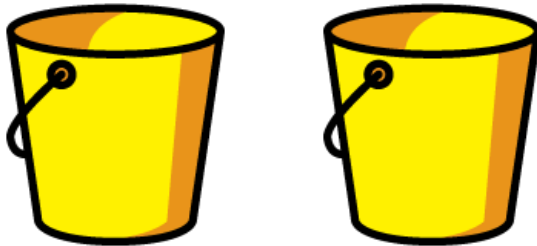


Work out the value of B.



1 A bucket holds 10 litres of water.

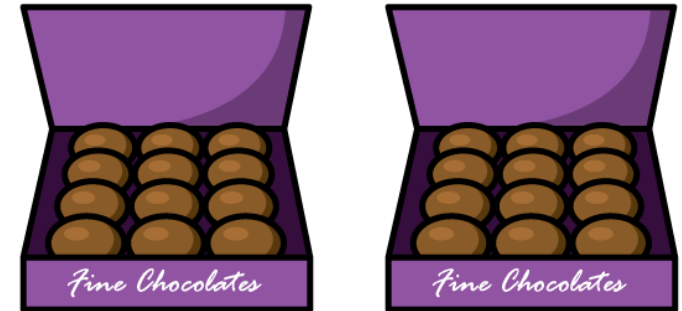
Maz pours two full buckets of water into an empty barrel.



The barrel is now half full.

How many litres of water can the barrel hold?

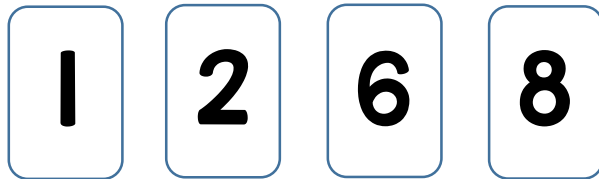
2 Lily has two boxes of chocolates.



She eats 3 chocolates each day for 5 days.

How many chocolates are in the box after 5 days?

1 Use the number cards to complete the addition.



$$\square\square + \square\square = 80$$

Now try and complete the multiplication.

$$\square \times \square = \square\square$$

2 Tim has this coin.

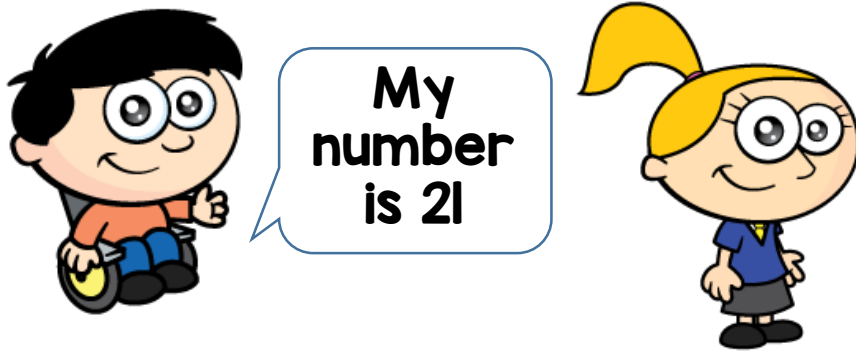


He exchanges it for some 10p coins and some 5p coins.
He gets these 10p coins.



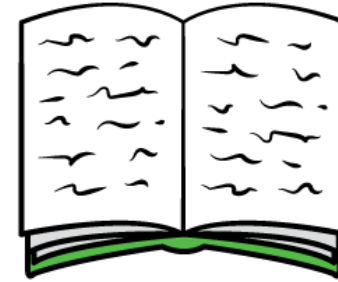
How many 5p coins does he get?

- 1** Max and Holly each think of a number.



The sum of their numbers is 50
Who is thinking of the greater number?
How much greater?

- 2** Yasmin buys 4 books.



Each book costs £2

She pays with a £20 note.

How much change does she get?

- 1 A bunch of 5 bananas cost £2



How much do 20 bananas cost?

- 2 Complete

$$94 - 3 \text{ tens} = \boxed{}$$

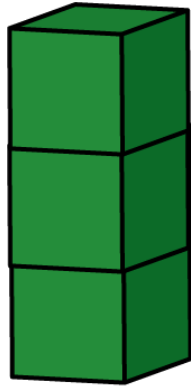
$$94 - 3 \text{ ones} = \boxed{}$$

$$94 - 5 \text{ } = 44$$

$$94 - \boxed{} \text{ ones} = 90$$

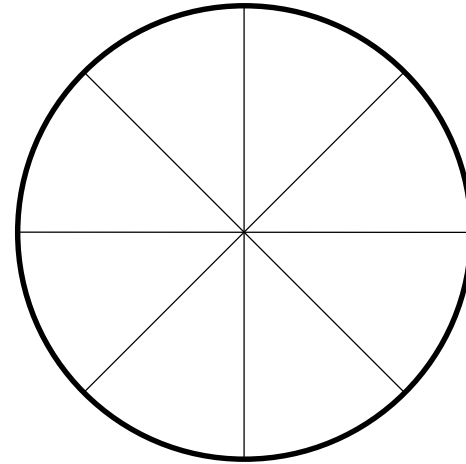
$$94 - \boxed{} \text{ ones} = 80$$

- 1** Amy has 20 cubes.
She makes towers of 3 cubes.



She makes 6 towers.
How many cubes has she left?

- 2** A circle is divided into 8 equal parts.



Shade $\frac{1}{2}$ of the parts red.
Shade $\frac{1}{4}$ of the remaining parts blue.

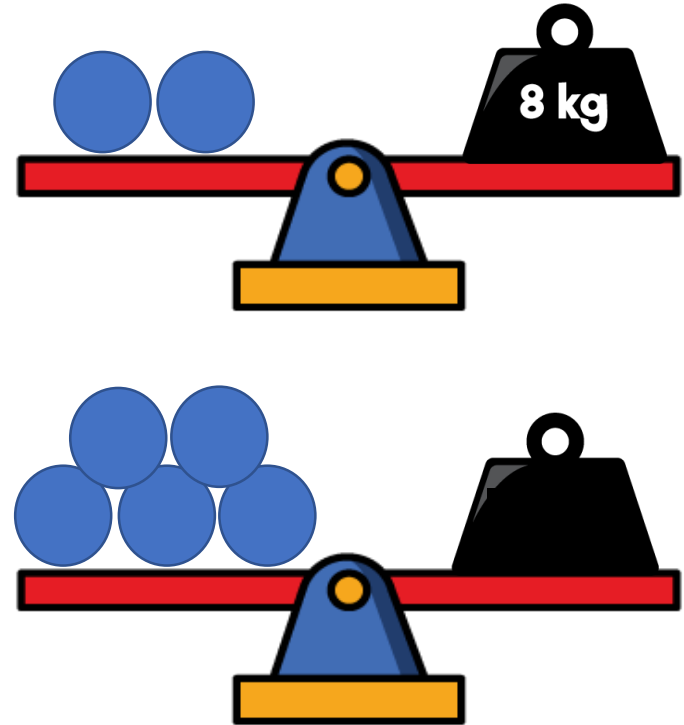
- 1** There are 12 people on a bus.



- At the first stop 3 people get off the bus.
- At the second stop 5 people get off the bus and 8 people get on.

How many people are on the bus now?

2



What is the mass of the weight on the second scale?

1 Work out the value of each symbol.

$$\text{Heart} + \text{Heart} = 18$$

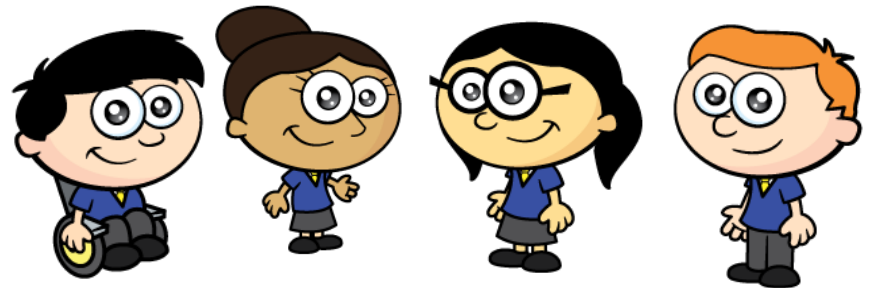
$$\text{Heart} + \text{Triangle} = 20$$

$$\text{Triangle} + \text{Sun} = \text{Triangle}$$

2 This money

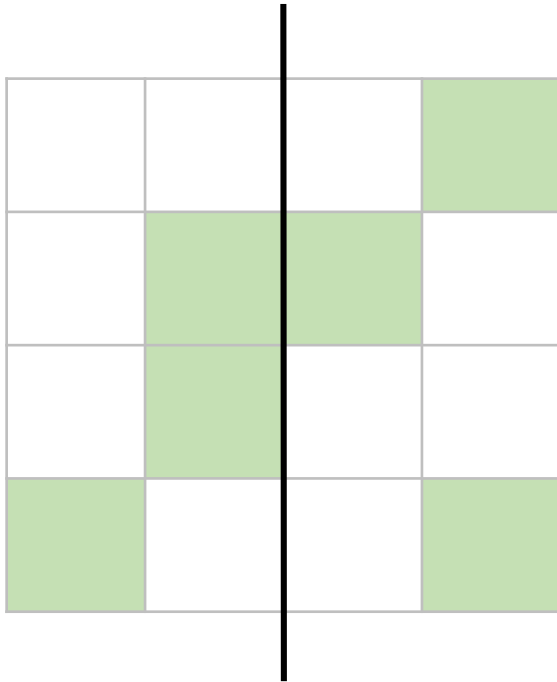


is shared between 4 children.

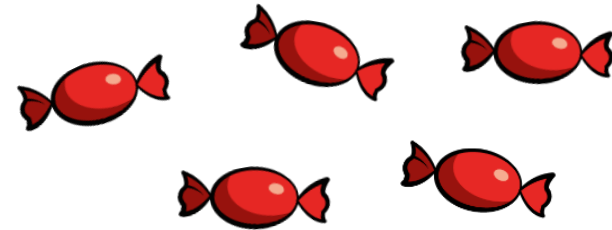


How much does each child get?

- 1** Shade in 2 more squares so that the black line is a line of symmetry.



- 2** Beth buys these sweets.



She pays with a £1 coin.

She gets 65p change.

How much does each sweet cost?