Predicted national curriculum tests

Key stage 1

Mathematics

SET 1 - Paper 2: reasoning

Full Name	
School	
Date	

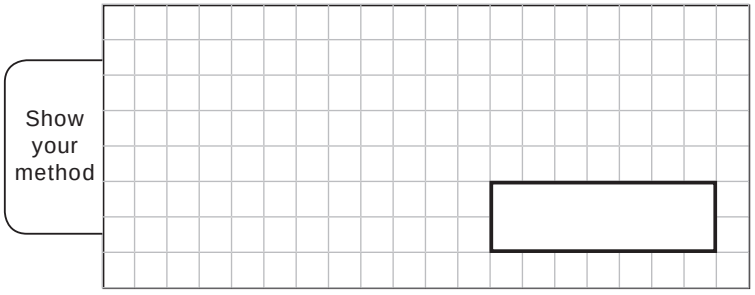
Total Marks	

PiAcademy

Instructions:

1. You **must not** use a calculator to answer any questions in this test.
2. It is expected that the test will take approximately 35 minutes to complete, but it is not strictly timed.
3. Work as quickly and as carefully as you can.
4. For each question follow the instructions and write your answer in the box as shown in the below picture.

5. If you need to do working out, you can use the space around the question.
6. The number under each circle at the side of the page tells you the maximum number of marks available for each question.
7. Some questions have a method box like this:



For these questions, you may get a mark for showing your method.

8. If you cannot do a question, go on to the next one. You can come back to it later, if you have time. If you finish before the end, go back and check your work.

Symbols used:

Go to the next page.

Do not turn the page until told to do so.

Stop working and await instructions.

1

$85 = \square + 5$

$97 = 90 + \square$

1 mark

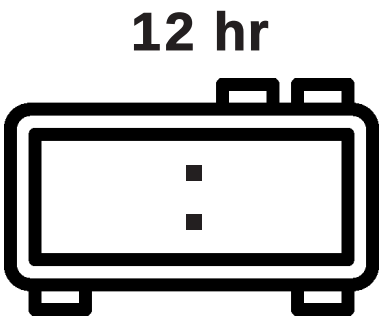
2

Chocolates

1 mark

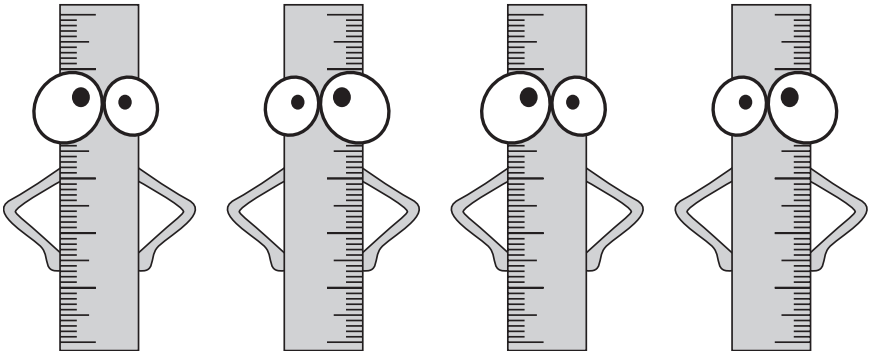
Visit piacademy.co.uk/ks1-sats-papers to check the 'answers'

3



1 mark

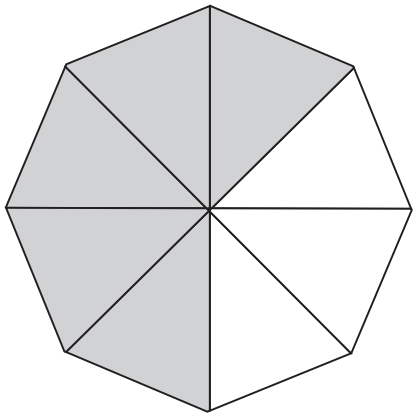
4



cm

1 mark

5



$\frac{3}{7}$ ☐ $\frac{8}{5}$ ☐

$\frac{5}{8}$ ☐ $\frac{3}{4}$ ☐

1 mark

6 **Write** the **missing** number.

1 mark

7 **Write** the **missing numbers** in the following sequence.

1 mark

Visit piacademy.co.uk/ks1-sats-papers to check the 'answers'

8 I am thinking of a number. When I **add** 6 to it the **total is 14.**

What number am I **thinking of**?

1 mark

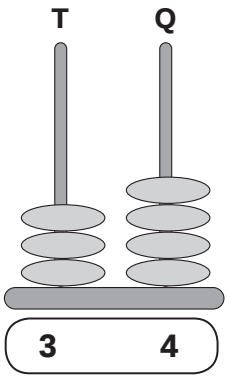
9 **Put** these weights in **order**, starting from the **smallest.**

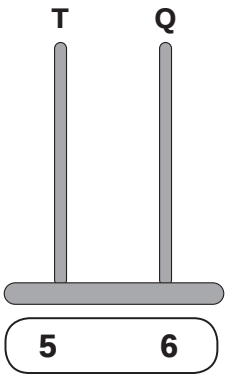
Smallest. _____ _____ _____ _____ _____ _____ Largest

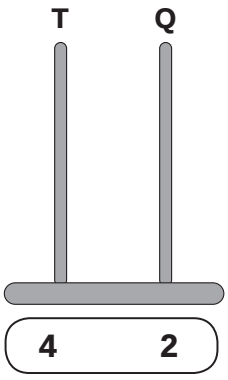
1 mark

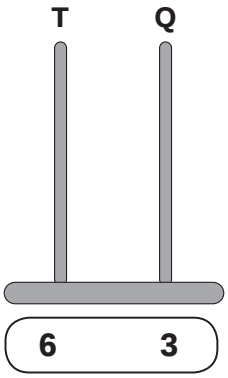
10 **Draw** the **beads** on the Abacus for the following given numbers.

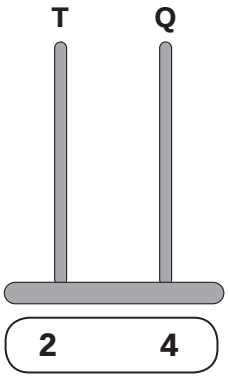
The first one is done for you.







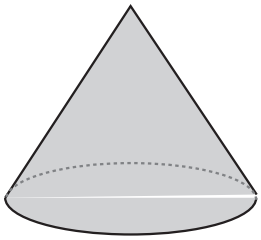




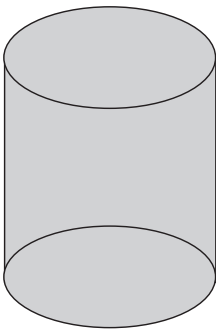
1 mark

11 **Match** these **shapes** to their **names.**

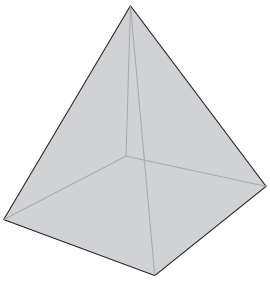
Pyramid



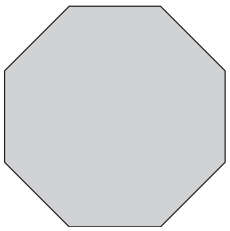
Octagon



Cylinder



Cone



1 mark

12 Give the numbers that are **3 less** and **4 more** than these numbers.

The first one is done for you.

64	67	71
	55	
	83	
	34	

1 mark

13 **Write** the **missing digits** to make the calculations correct.

$15 - \square = 9$

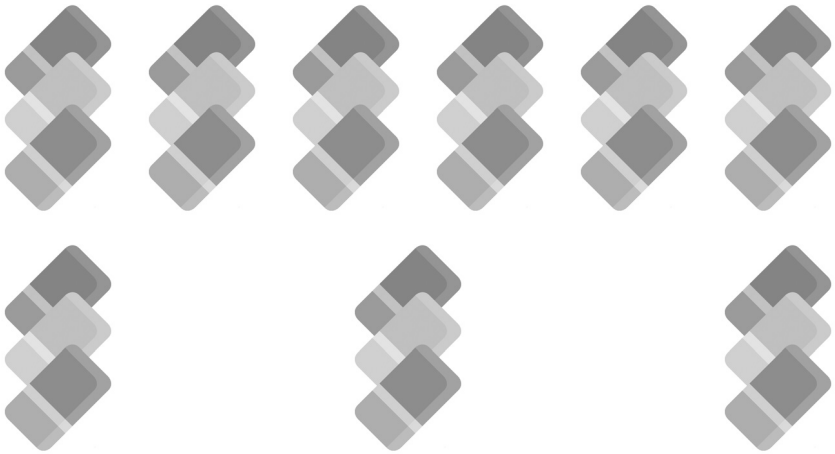
$\square \times 5 = 30$

$45 \div \square = 9$

$\square + 6 = 19$

1 mark

14 Kem, Ben and Billy **share** these erasers **equally**.

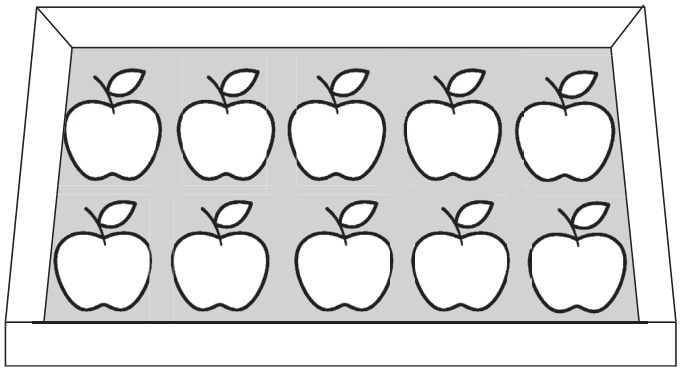


How many erasers do they **each get**?

1 mark

15 A **box** has 10 apples packed in it.

10 apples weigh 90g.



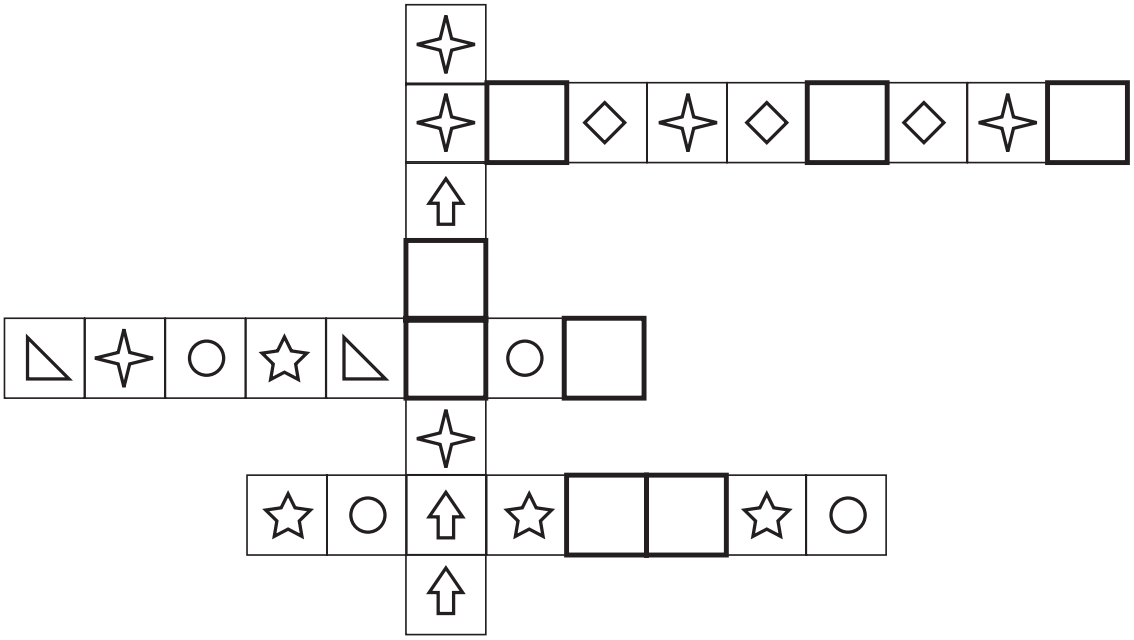
What is the **weight** of **1 apple**?

g

1 mark

16 Here are different shape patterns.

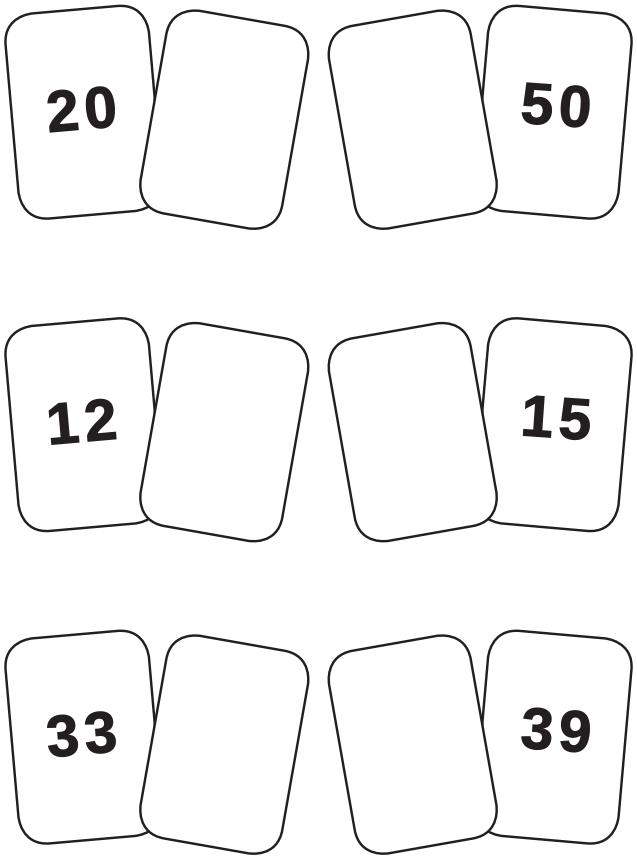
Draw a shape in each empty box to **make** the **patterns correct.**



1 mark

17 The figure shows a pattern of numbers.

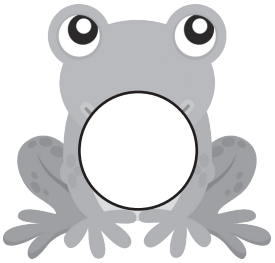
Write the **missing number** in each box to **make** the **pattern correct.**

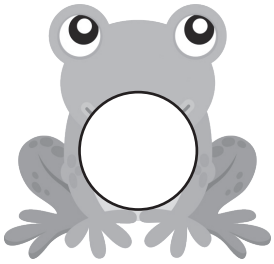


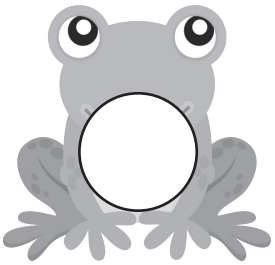
1 mark

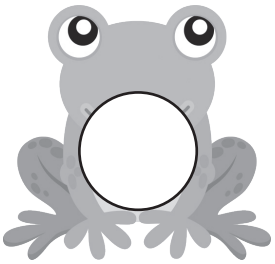
18 **Write** the following numbers in **figures**.

The first one is done for you.

Thirty-five 

Four hundred and fifteen 

Fifty Seven 

Eighteen 

1 mark

19 **Look at these packs of chocolates.**

20p

5p

40p

50p

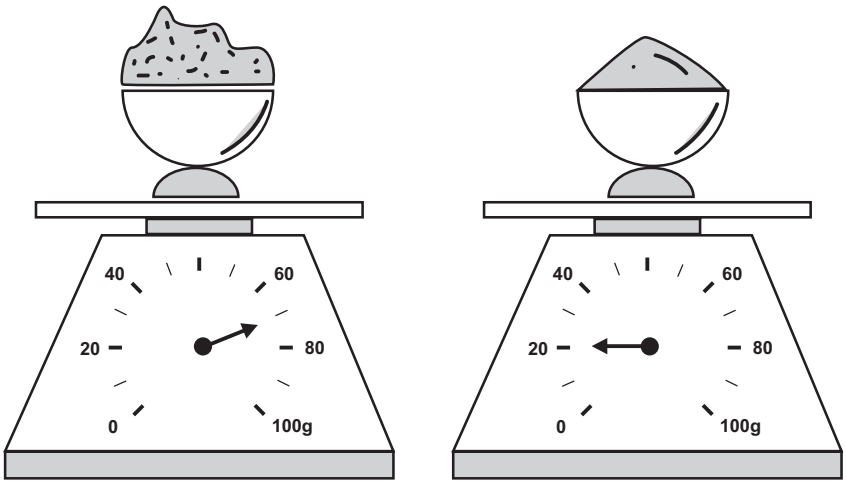
10p

Aimee **buys 3 different** packs of chocolates and **spends 80p** in total.

Tick the **three packs** of chocolates that she **buys.**

1 mark

20 **Look at the weighing scales below.**



One scale **measures** the rice in a bowl and the other scale **measures** the wheat flour.

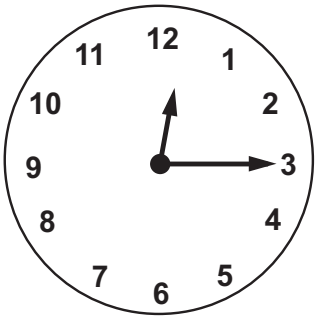
Read the **weights** of **both** the bowls from the figure.

What is the **total weight** of rice and flour in **grams**?

grams

1 mark

21 **Write** the **time** of each clock.



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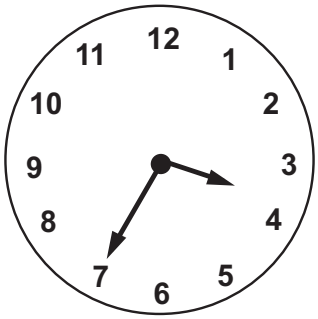

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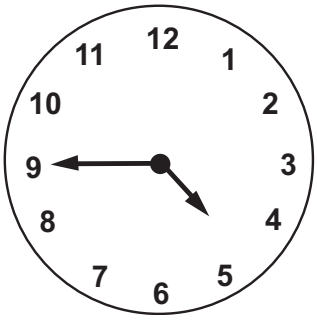

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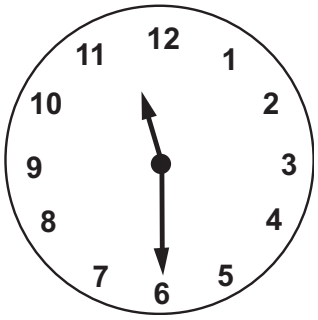


:

1 mark

22 **The answer to each question can be found in the pond given below.**

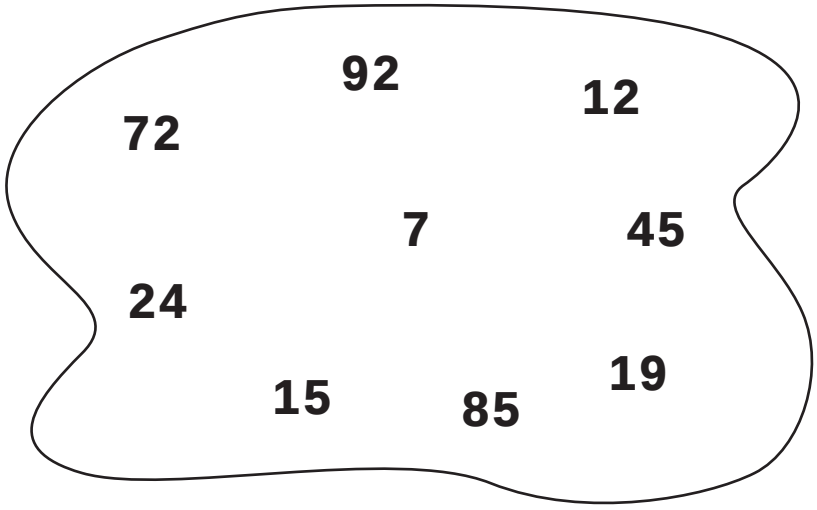
Choose the **correct answer** and **write** it in the given **empty box.**

1) Half of 90 = ☐

2) 8 X 9 = ☐

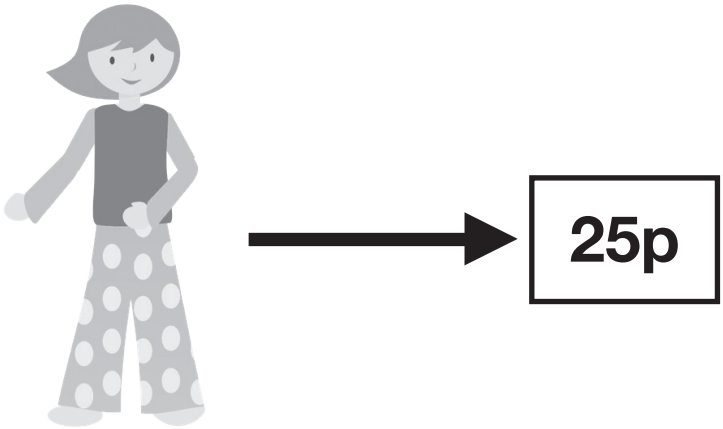
3) How many days are there in one week? ☐

4) How many months are there in two years? ☐



2 marks

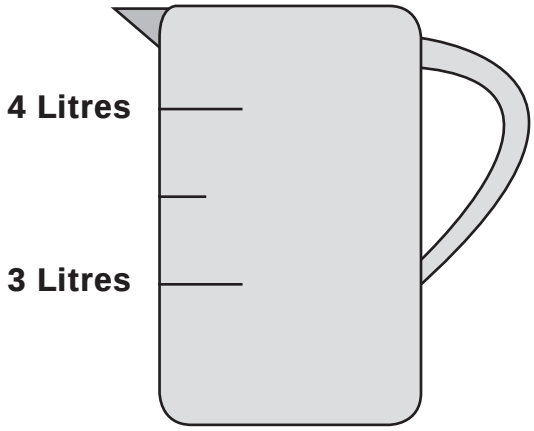
23 **Draw** no more **than 4 coins** to **pay** for the Jessie toy in the space given below.



1 mark

24 Ben pours some fruit juice in the jug **until it contains** 3 litres.

Shade the **level** of juice in the jug.



How much **more** juice will Ben have to **add** to make it **4 litres**?

Litres

1 mark

25 **Draw a ring** around the **even** numbers.

7 19 14 13 9 8 6 26 2

1 mark

26 Riya went to **play** badminton at **1.30pm.**

She **returned** home at **3.45pm**.

How long did **she play** badminton?

_____ **hours** _____ **mins**

1 mark

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27 **There are 48 bikes parked in a space.**

In few hours, **10 bikes more** are parked **inside** and **later 5 bikes leave** the parking space.

Tick the correct calculation that can be used to find **how many bikes** are in the **now left** parking space?

☐ **48 - 10 + 5 = 43**

☐ **48 + 10 - 5 = 53**

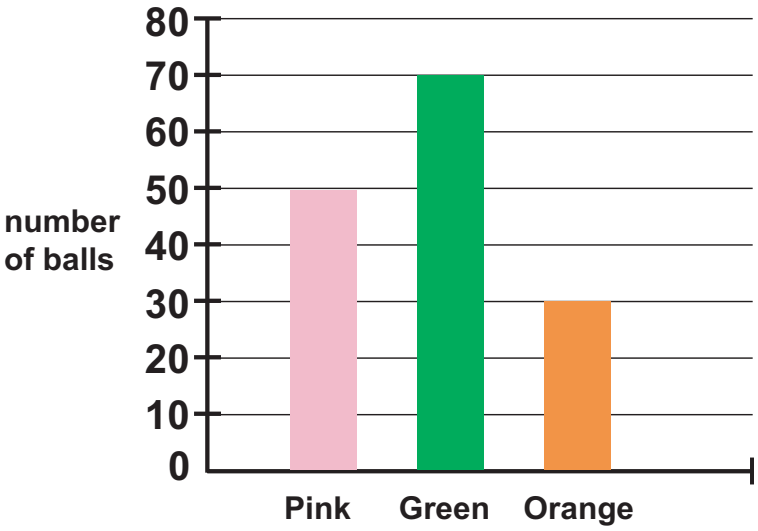
○ 1 mark

28 **Look at the following three cards.**

Write the **largest two-digit odd number** using these cards.

1 mark

29 This chart shows the **number of different colored small-size balls** that ben has bought.



He bought **fewer orange** balls than the **green** ones.

How many **fewer**?

balls

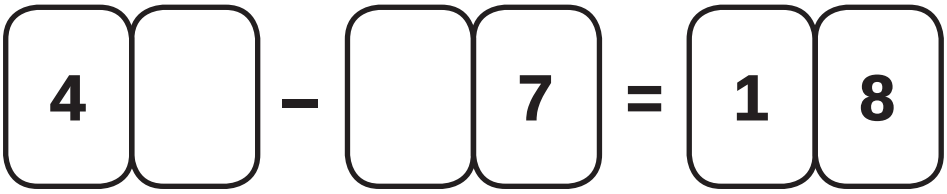
1 mark

How many pink balls are **more as compared to orange** balls?

balls

1 mark

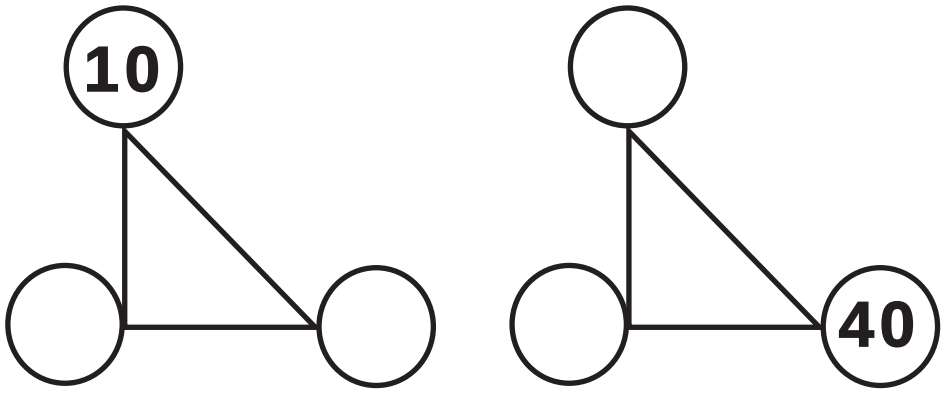
30 **Write** the **missing digit** in each empty box to **make** the **calculation** correct.



1 mark

31 **Each** triangle must **make 80.**

Fill in the **missing numbers** in the empty circles.



1 mark

32 **List all** the **numbers** which makes the **following statements true.**

50 **<** ○ **<** **56**

○ **:** _____

○
1 mark