Homework

Friday 8th March 2024

Please complete the following:

As SATs are approaching, I have provided you with lots of different revision activities, so you are fully prepared for May. These are for you to complete in your own time however, there will always be a main homework activity for you to complete which will be identified on the homework plan below.

English	**Reading** Read at home on at least **three** separate occasions and record in your reading diary. These must be handed in daily to be signed. **Spellings** Practise your spellings. These will be uploaded on Spelling shed too. You will have a test on Friday.
Mathematics **Main homework**	**Past Paper Maths 2018 paper 2 reasoning.** Try and do this in timed conditions. You will have 40 minutes for this test in the SATs.
Other	1. **Maths.co.uk** live test on: Fractions 2. **Spag.com** live test on: Hyphens, dashes & bullet points (A) **Year 3/4&5/6 word lists** Don't forget to keep reviewing the word lists and practise the words you are unfamiliar with. As well as being useful to include in your writing, these words may pop up in the SATs test… Revision Websites: https://www.bbc.co.uk/bitesize/subjects/zv48q6f/year/zncsscw https://ttrockstars.com/ https://myminimaths.co.uk/year-6-mini-maths/ https://mathsframe.co.uk/

If you need any further guidance on how to complete the tasks, please ask! Don't leave it until Wednesday!

Remember, have a go and try your best!

Key stage 2

Mathematics

Paper 2: reasoning

First name	
Middle name	
Last name	
Date of birth	Day Month Year
School name	
DfE number	

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Please do not write on this page.

Instructions

You **must not** use a calculator to answer any questions in this test.

Questions and answers

You have **40 minutes** to complete this test.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

If you need to do working out, you can use the space around the question.
Do not write over any barcodes.

Some questions have a method box like this:

Show your method

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

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**.

Marks

The number under each line at the side of the page tells you the number of marks available for each question.
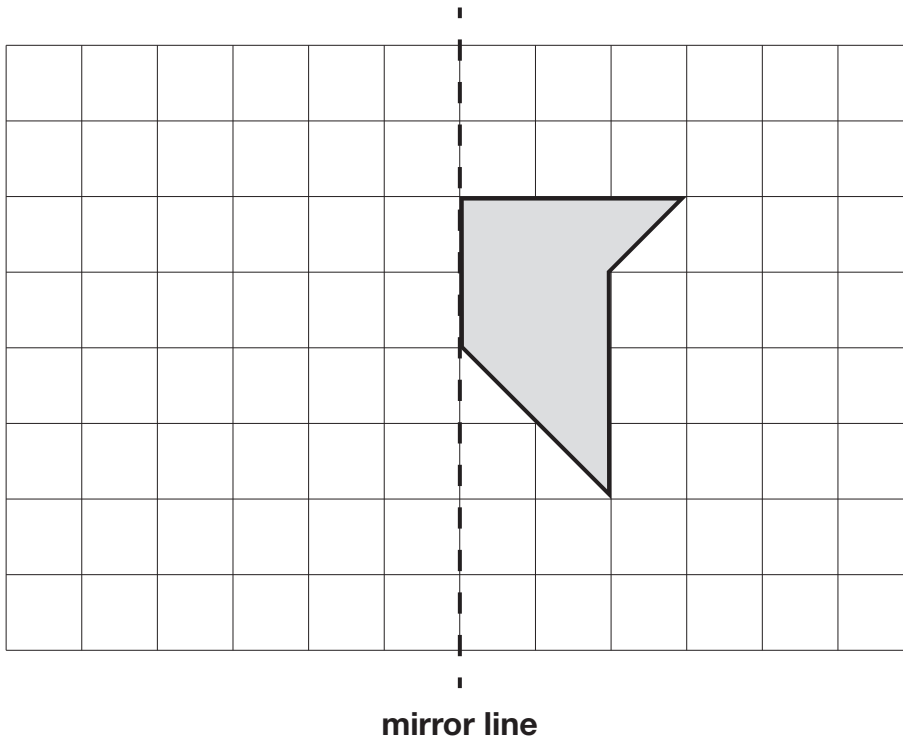
Here is a shape on a grid.

Complete the design so that it is symmetrical about the mirror line.

Use a ruler.

mirror line

1 mark

Stefan completes this calculation.

$$\begin{array}{r} 9\ 5 \\ -\ 6\ 7 \\ \hline 2\ 8 \end{array}$$

Write an **addition** calculation he could use to check his answer.

$$\begin{array}{r} \boxed{\ }\ \boxed{\ } \\ +\ \boxed{\ }\ \boxed{\ } \\ \hline \boxed{\ }\ \boxed{\ } \end{array}$$

1 mark

3 On the line below, mark the point that is 6.7 centimetres from A.

A

4 These diagrams show three equivalent fractions.
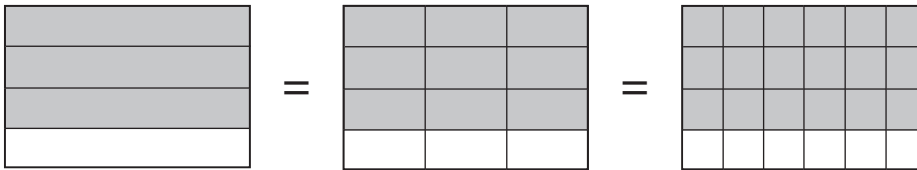
Write the missing values.

$$\frac{3}{4} = \frac{9}{\boxed{}} = \frac{\boxed{}}{24}$$

5 Here are the temperatures in four cities at midnight and at midday.

City	Temperature	
	At midnight	**At midday**
Paris	−4˚C	−2˚C
Oslo	−13˚C	−7˚C
Rome	3˚C	10˚C
Warsaw	−6˚C	2˚C

At **midnight**, how many degrees colder was Paris than Rome?

degrees

1 mark

Which city was 6 degrees colder at midnight than at midday?

1 mark

6 The numbers in this sequence **decrease** by the same amount each time.

303,604　　302,604　　301,604　　300,604　　…

What is the next number in the sequence?

1 mark

7 Tick the **two** numbers that are equivalent to $\frac{1}{4}$

Tick **two**.

0.25 ☐

0.75 ☐

$\frac{25}{100}$ ☐

0.5 ☐

$\frac{2}{5}$ ☐

1 mark

8 Ken buys 3 large boxes and 2 small boxes of chocolates.

Each large box has 48 chocolates. Each small box has 24 chocolates.

Large
48
chocolates

Small
24
chocolates
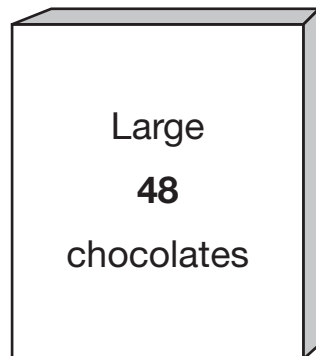
How many **chocolates** did Ken buy altogether?

Show your method

| chocolates |

2 marks

9 The list below shows the years in which the Cricket World Cup was held since 1992:

1992, 1996, 1999, 2003, 2007, 2011, 2015

Adam says,

The Cricket World Cup has been held every four years since 1992.

Adam is **not** correct.

Explain how you know.

1 mark

10

$$\boxed{>} \quad \boxed{=} \quad \boxed{<}$$

Write the correct symbol in each box to make the statements correct.

11×12 $\boxed{}$ 15×10

$90 \div 30$ $\boxed{}$ $60 \div 20$

$120 \div 4$ $\boxed{}$ $160 \div 8$

30×8 $\boxed{}$ 100×10

2 marks

11 Here is a drawing of a 3-D shape.
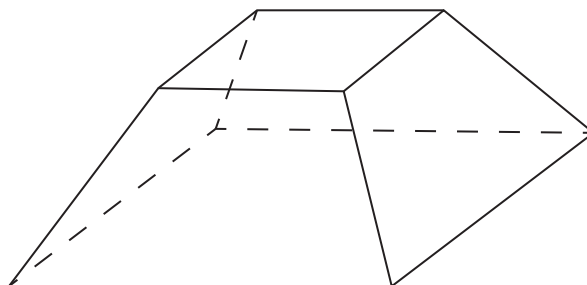
Complete the table.

Number of faces	Number of vertices	Number of edges

2 marks

12 Here is a shape on a grid.

The shape is translated so that point **A** moves to (7, 8).

Draw the shape in its new position.

Use a ruler.

A (3, 5)
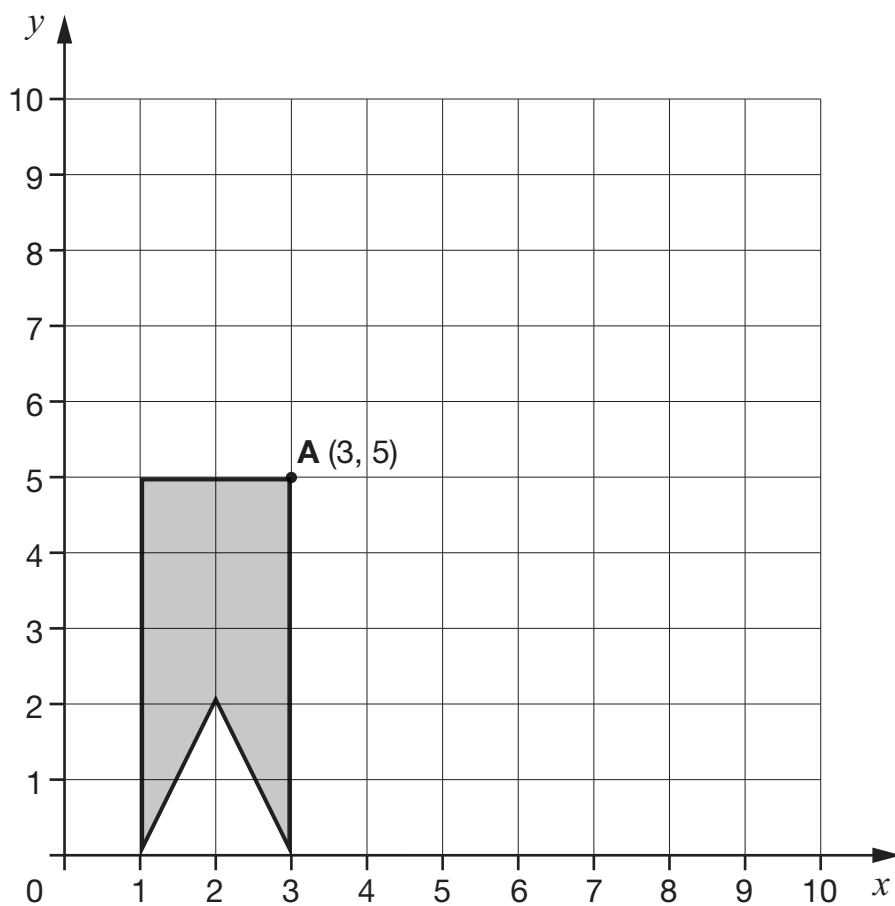
13 Circle the improper fraction that is equivalent to $6\frac{7}{8}$

$$\frac{67}{8} \qquad \frac{48}{8} \qquad \frac{62}{8} \qquad \frac{55}{8} \qquad \frac{76}{8}$$

14 $$\frac{6}{5} \qquad \frac{3}{5} \qquad \frac{3}{4}$$

Write these fractions in order, starting with the **smallest**.

smallest		

15 A box contains trays of melons.

There are 15 melons in a tray.

There are 3 trays in a box.
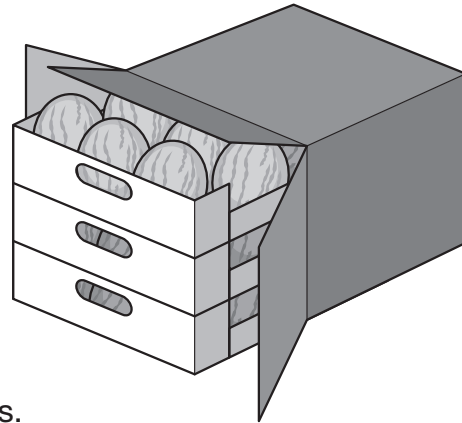
A supermarket sells **40** boxes of melons.

How many melons does the supermarket sell?

Show your method

| | melons |

2 marks

16 Adam wants to use a mental method to calculate 182 – 97

He starts from 182

Here are some methods that Adam could use.

Tick the methods that are **correct**.

add 3 then subtract 90 ☐

subtract 100 then add 3 ☐

subtract 7 then subtract 90 ☐

subtract 3 then subtract 100 ☐

2 marks

17 There are 28 pupils in a class.

The teacher has 8 litres of orange juice.

She pours 225 millilitres of orange juice for every pupil.
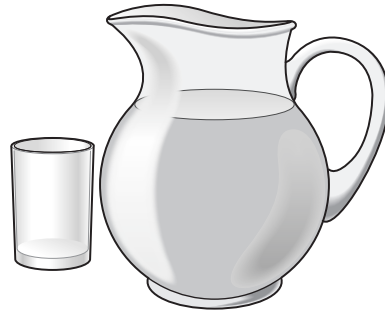
How much orange juice is left over?

Show your method

18 Last year, Jacob went to four concerts.

Three of his tickets cost £5 each.
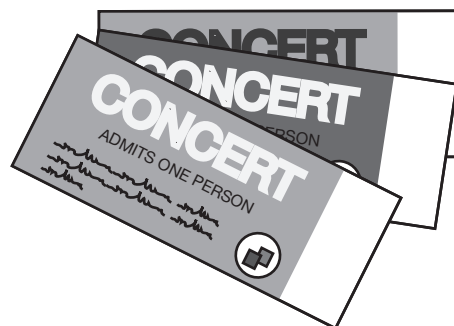
The other ticket cost £7

What was the **mean** cost of the tickets?

Show your method

£

2 marks

19 Layla wants to estimate the answer to this calculation.

$$3\frac{9}{10} - 2\frac{1}{8} + 1\frac{4}{5}$$

Tick the calculation below that is the best estimate.

Tick **one**.

3 – 2 + 2 ☐

4 – 2 + 1 ☐

4 – 2 + 2 ☐

3 – 2 + 1 ☐

1 mark

20 The length of an alligator can be estimated by:

- measuring the distance from its eyes to its nose

- then multiplying that distance by 12

What is the **difference** in the estimated lengths of these two alligators?

17.5 cm

15 cm
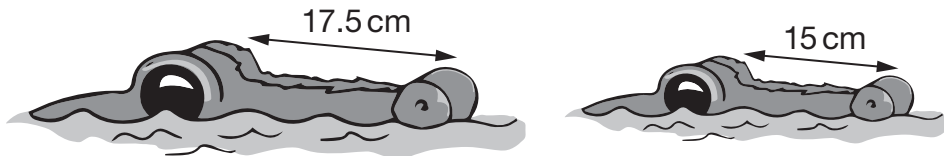
Not to scale

Show your method

cm

2 marks

21 Amina is making designs with two different shapes.

She gives each shape a value.
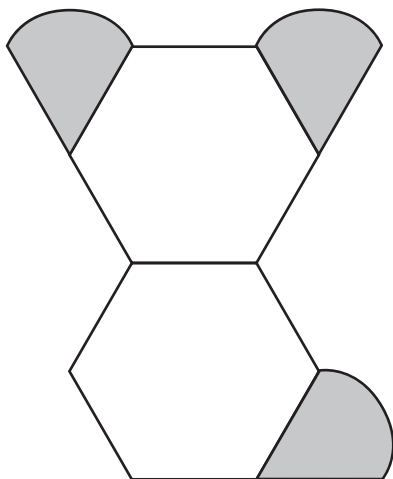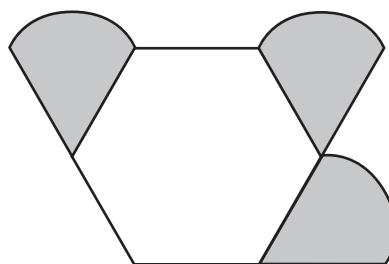
Total value is 147   Total value is 111

Calculate the value of each shape.

=
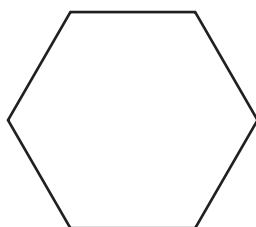
1 mark

=

1 mark

22 This is the net of a cube.

20 cm

Not actual size
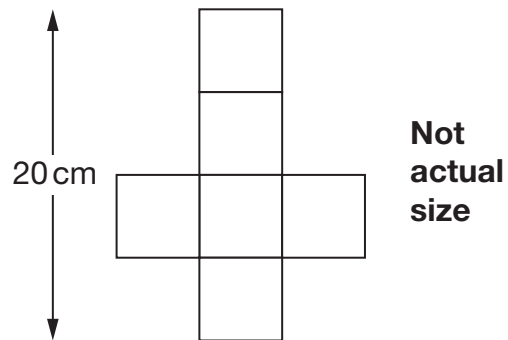
What is the **volume** of the cube?

cm³

G 0 0 0 7 0 A 0 2 2 2 4

23 The length of a day on Earth is 24 hours.

The length of a day on Mercury is $58\frac{2}{3}$ times the length of a day on Earth.

What is the length of a day on Mercury, in **hours**?

Show your method

hours

2 marks

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Additional printed copies of this booklet are not available. It can be downloaded from www.gov.uk/government/publications.

If you have any queries regarding these test materials, contact the national curriculum assessments helpline on 0300 303 3013 or email assessments@education.gov.uk.