

CANDIDATE
NAME

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CENTRE
NUMBER

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CANDIDATE
NUMBER

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MATHEMATICS

0845/01

Paper 1

April 2018

45 minutes

Candidates answer on the Question Paper.

Additional Materials:

Pen
Pencil
Ruler

Protractor
Tracing paper (optional)

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.

Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

Calculators are **not** allowed.

The number of marks is given in brackets [] at the end of each question or part question.

You should show all your working in the booklet.

The total number of marks for this paper is 40.

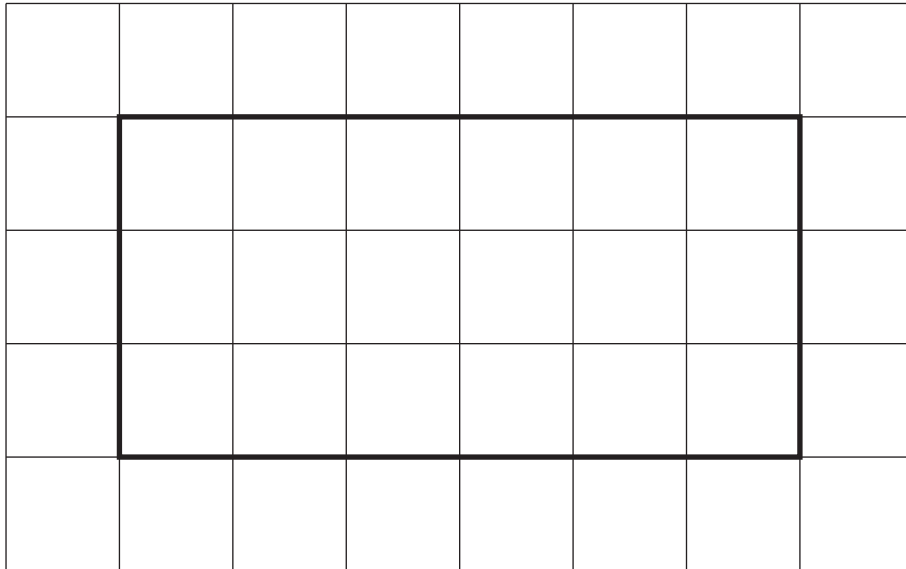
This document consists of **15** printed pages and **1** blank pages.

1 Complete this calculation.

$$100 - \boxed{} = 33$$

[1]

2 Here is a rectangle drawn on a square grid.



What is the area of the rectangle?

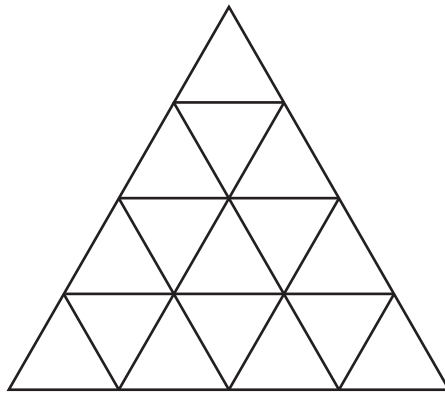
..... squares [1]

3 Complete this multiplication square.

×		3	
2	8	6	18
5	20		45
6		18	

[2]

- 4 Here is a shape made up of equilateral triangles.



Shade $\frac{1}{8}$ of this shape.

[1]

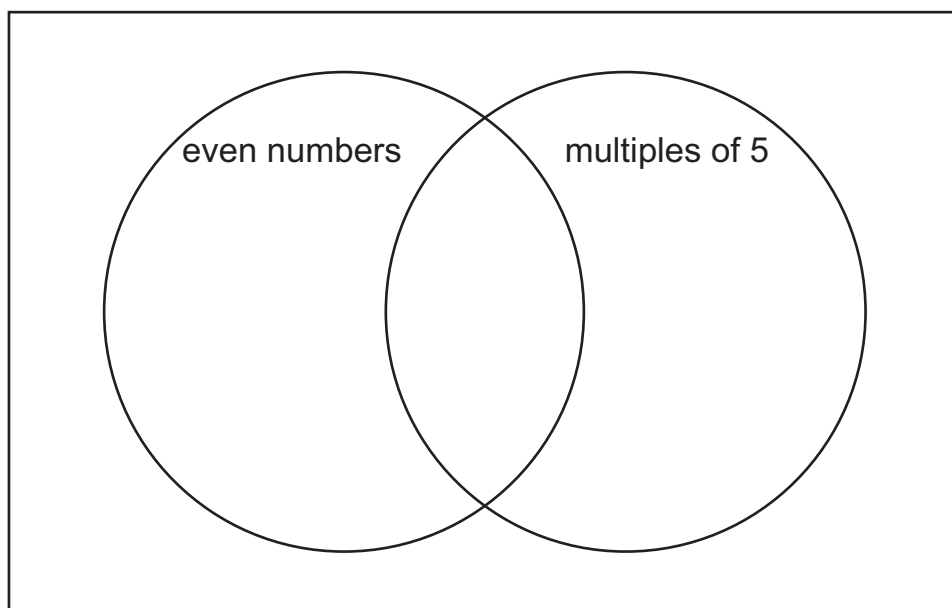
- 5 Put these numbers into the correct place on the diagram.

20

22

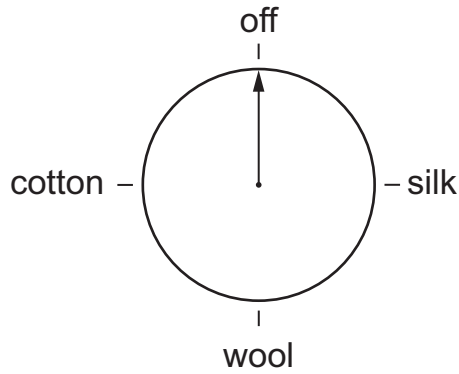
23

25



[2]

- 6 Here is the temperature control on an iron.
The iron is off.



Hassan needs to iron a cotton shirt.
He turns the control in a clockwise direction.

What angle should he turn it through?

.....° clockwise [1]

- 7 Angelique says,



Is she correct?

Explain your answer.

.....
..... [1]

- 8 Mike writes a number pattern.
He counts on 200 each time.
The fourth number in his pattern is 4321

What was the first number in his pattern?

..... [1]

- 9 Here are five number cards.

A
6.59

B
65.9

C
659

D
6590

E
65 900

Which card shows the number that is 100 times bigger than 659?

..... [1]

- 10 Complete the boxes.

$$\frac{1}{\boxed{}} = 50\%$$

$$\frac{4}{\boxed{}} = 4\%$$

$$\frac{3}{10} = \boxed{}\%$$

[2]

- 11 Write these as 24-hour clock times.

(a) 10:30 pm

..... [1]

(b) quarter to nine in the morning

..... [1]

12 Here is a number square.

Mia has marked on some of the pairs that total 1

0.4	0.7	0.3	0.5
0.8	0.9	0.6	0.8
0.2	0.5	0.9	0.3
0.5	0.4	0.7	0.1

Here is another number square.

1.6	9.4	2.6	5.4
4.5	8.4	5.6	4.4
6.5	7.5	7.2	2.4
3.5	3.6	2.5	6.6

Draw rings around the four pairs of numbers that total 10 in this square.

[2]

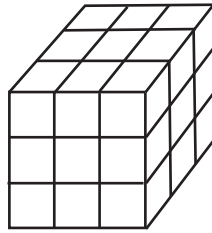
13 Five children share 24 m of ribbon equally.

How much ribbon will each child get?

Write your answer as a mixed number.

..... m [1]

14 Here is a picture of a 3×3 solid cube made of blocks.



The outside of this cube is painted red.

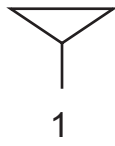
(a) How many of the blocks have 3 red faces?

..... blocks [1]

(b) How many of the blocks have 1 red face?

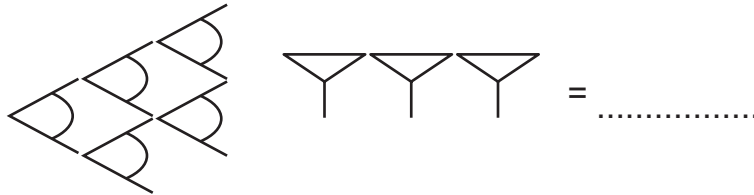
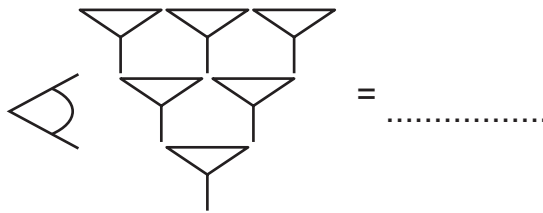
..... blocks [1]

15 The Babylonians used only two symbols to write their numbers up to 60



so  = 32

(a) Which numbers do these images represent?

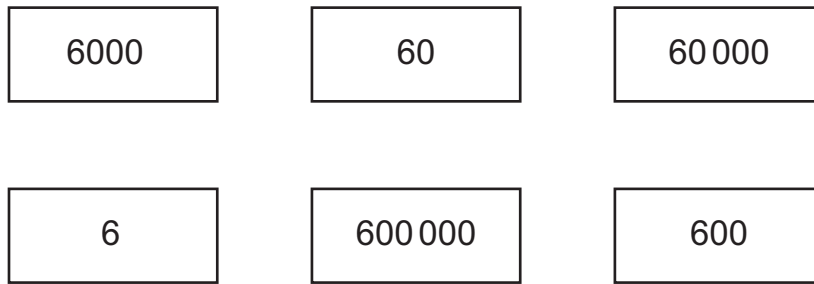


[1]

(b) Write 41 using the Babylonian symbols.

[1]

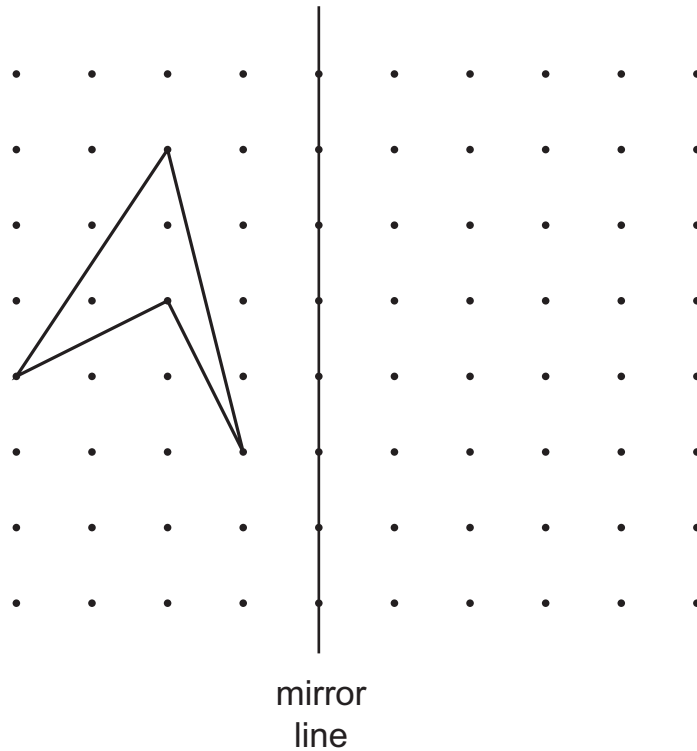
16 Here are some number cards.



Draw rings around the cards needed to make a **total** of 60 606

[1]

17 Draw the reflection of the shape in the mirror line.



[1]

18 Write these decimals in order, starting with the smallest.

7.4 7.04 7.44 7.1

smallest

largest

[1]

19 Calculate $0.5 + \frac{4}{10}$

..... [1]

20 Here is a number sentence.

$$1.9 \times 3.6 = 6.84$$

Use this number sentence to solve

$$19 \times 3.6 = \dots\dots\dots$$

$$6.84 \div 3.6 = \dots\dots\dots$$

$$1.9 \times 360 = \dots\dots\dots$$

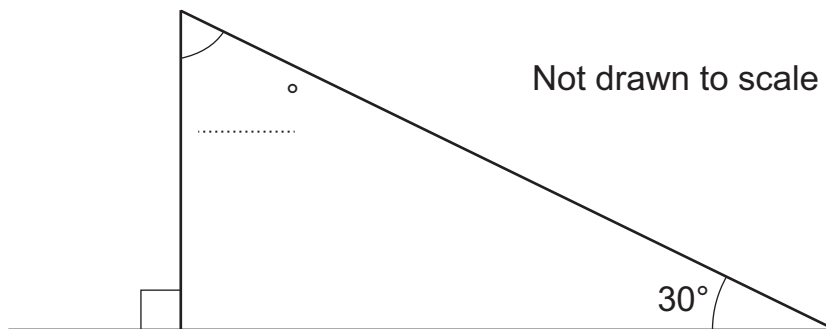
[2]

21 Write all the numbers between 70 and 130 that are

- divisible by 4
 and
- divisible by 5

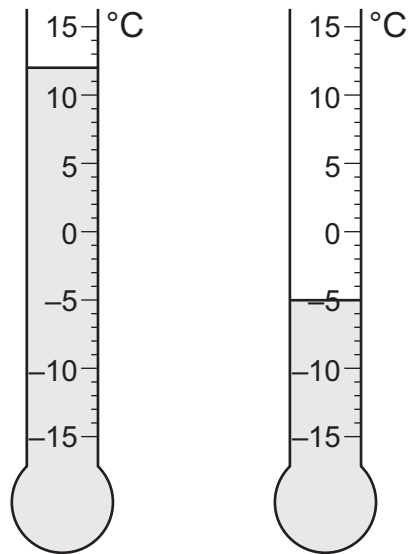
..... [2]

22 Write the missing angle on the answer line.



[1]

23 Here are two thermometers.



What is the difference in temperature shown on the thermometers?

..... °C [1]

24 (a) Eight friends share 250 dollars equally.

How much does each friend receive?

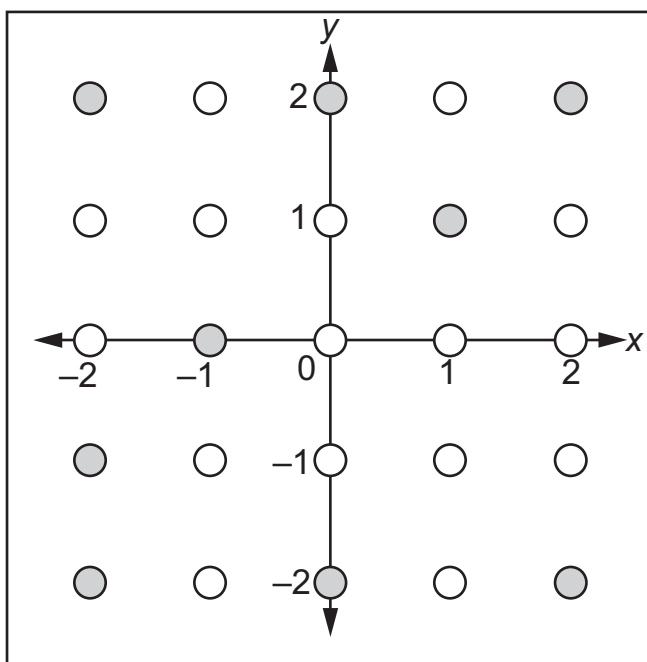
\$ [1]

(b) Seven friends go to a concert.
The tickets cost \$36.95 each.

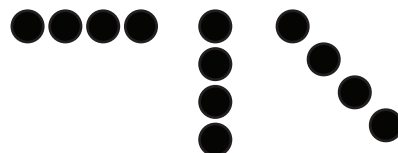
How much does it cost altogether?

\$ [1]

25 Ahmed plays a game on a pegboard.



He must place black pegs in a line of 4 on the board.



He cannot use any point marked with a .

(a) One peg on Ahmed's line is at the point $(1, -1)$.

Shade the point to show this peg.

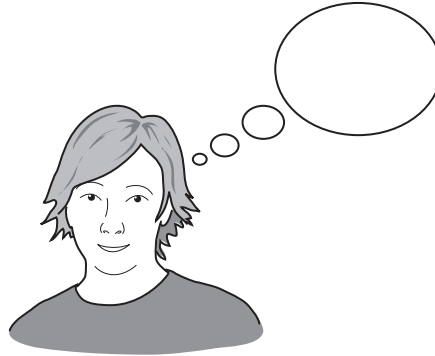
[1]

(b) Write the co-ordinates of the other 3 points on Ahmed's line.

(..... ,) (..... ,) (..... ,)

[1]

- 26 Yuri is thinking of a 4-digit whole number.
He rounds his number to the nearest thousand.
His answer is 4000



What is the **smallest** number Yuri could be thinking of?

..... [1]

- 27 Here is a signpost.
It shows how far it is to London.



8 km is approximately 5 miles

How many miles is it to London?

.....miles [1]

28 (a) Write three numbers with a mode of 6

[1]

(b) Write three numbers with a range of 7

[1]

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