



Cambridge Primary Checkpoint

CANDIDATE
NAME

CENTRE
NUMBER

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CANDIDATE
NUMBER

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MATHEMATICS

0845/01

Paper 1

October 2022

45 minutes

You must answer on the question paper.

You will need: Protractor
 Tracing paper (optional)

INSTRUCTIONS

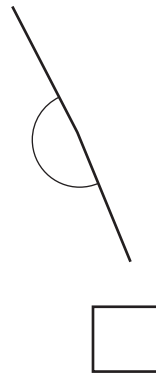
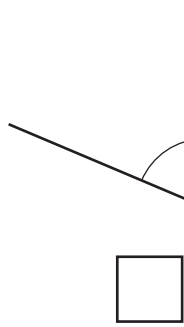
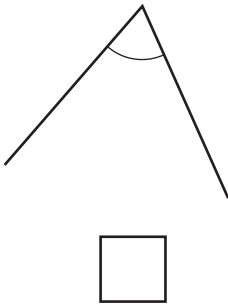
- Answer **all** questions.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do **not** write on any bar codes.
- You should show all your working in the booklet.
- You are **not** allowed to use a calculator.

INFORMATION

- The total mark for this paper is 40.
- The number of marks for each question or part question is shown in brackets [].

This document has **16** pages.

1 Tick (✓) the angle that is closest in size to a right angle.



[1]

2 Here is a rectangle.



The rectangle is drawn accurately.

Write the perimeter of the rectangle.

..... cm [1]

- 3 A radio costs \$85
 7 A music player costs \$26 less than the radio.

Write the cost of **two** music players.
 Show your working.

\$

[2]

- 4 Mia says,

7



I am thinking of a number.
 I subtract 18 from the number
 and the answer is 35

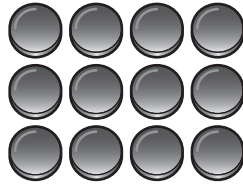
Write Mia's number.

.....

[1]

4

5 Pierre has arranged 12 counters as an array.



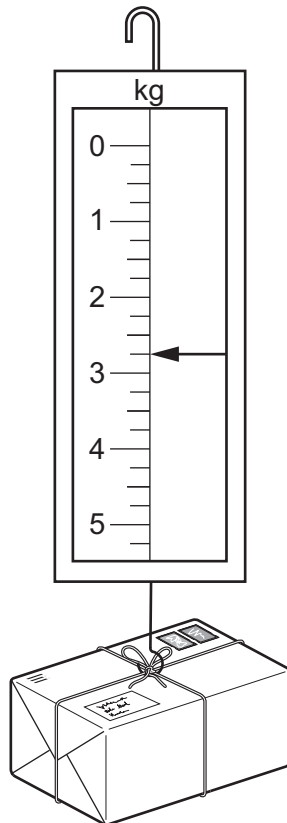
Complete the two multiplication sentences shown by the array.

$$\dots \times \dots = 12$$

$$\dots \times \dots = 12$$

[1]

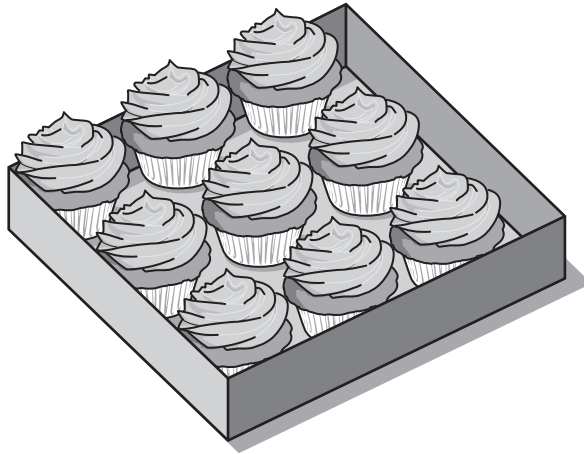
6 Here is a parcel on a spring scale.



Write the mass of the parcel.

..... kg [1]

7 Mike has 56 cakes.



One box holds 9 cakes.

Write the number of boxes Mike needs for all the cakes.

..... boxes [1]

8 Oliver and Yuri are playing a game.



They both have a set of digit cards from 0 to 9

The cards are not in order.

They each turn over the first four cards and add them together.

The winner has the largest total.

Oliver turns over 4, 3, 5 and 6

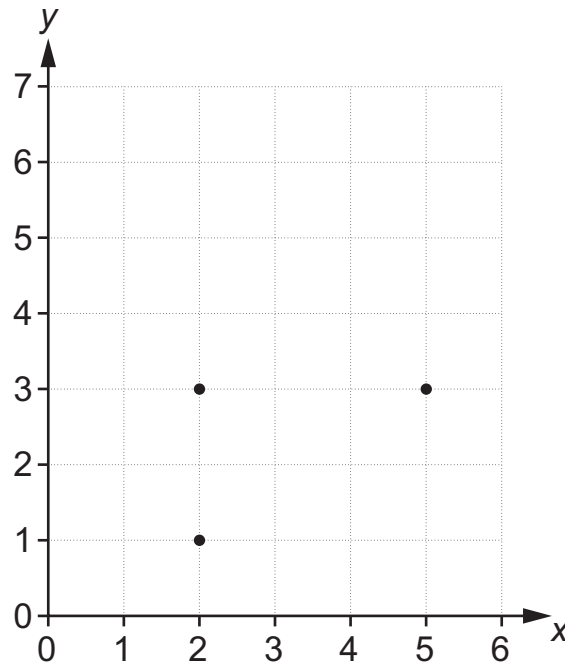
Yuri turns over 2, 4, and 8

Write the lowest card that Yuri needs to win the game.

..... [1]

9 Here is a coordinate grid.

Three of the vertices of a rectangle are marked on the grid.



Write the coordinates of the fourth vertex.

(..... ,) [1]

10 Here are two mathematical symbols.



> <

Write the correct symbol in each box.

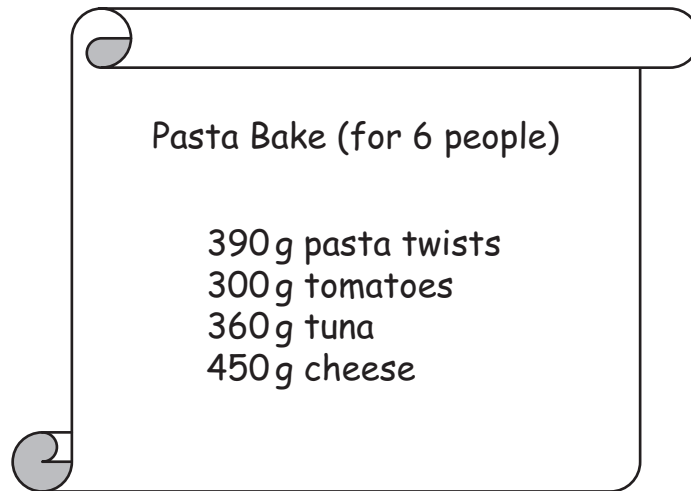
4.73 4.65

3.21 3.09

5.07 5.1

[1]

11 Here is a recipe.



Angelique makes Pasta Bake for 12 people.

Write how many grams of tuna she needs.

..... g [1]

12 Eva is thinking of an **even** number.



It is a multiple of 25

It is bigger than 100

It is less than 200

Write Eva's number.

..... [1]

13 Draw a ring around the two numbers that total 10



2.3 2.7 3.3 4.7 6.3 6.7 8.7

[1]

14 Carlos multiplies using pairs of factors.



For example, to multiply 12×18 , he writes

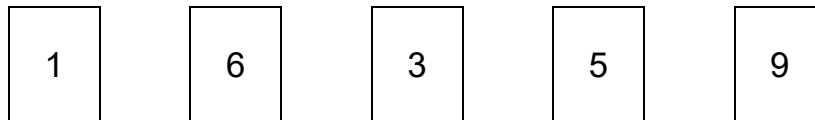
$$\boxed{3} \times \boxed{4} \times \boxed{2} \times \boxed{9}$$

Complete the boxes to multiply 21×15 using only single digits.

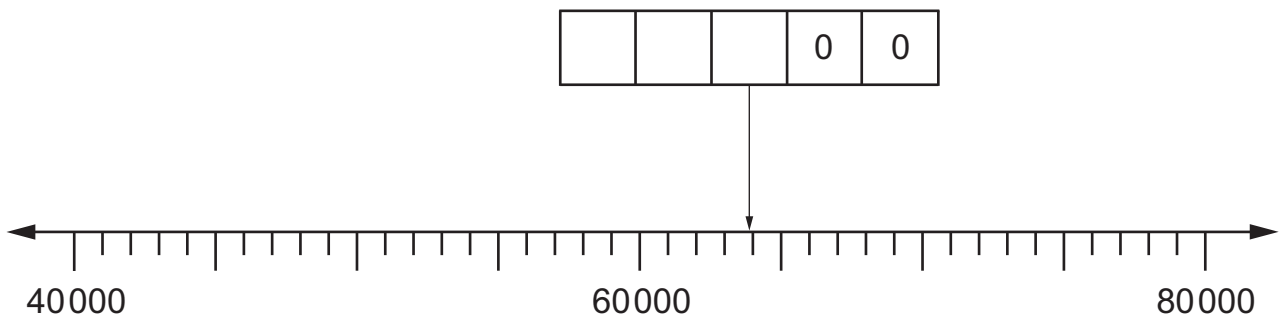
$$\boxed{} \times \boxed{} \times \boxed{} \times \boxed{}$$

[2]

15 Here are five digit-cards.



Use **three** of these cards to estimate the missing number on the number line.



[1]

16 Safia says,



I am thinking of a prime number
between 1 and 20
If I subtract 3 from the number
it is a multiple of 8



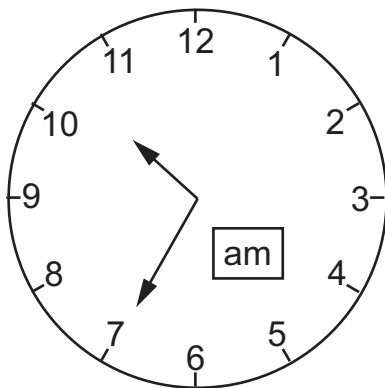
Write the number Safia could be thinking of.

..... [1]

17 Write the interval between the time shown on clock A and the time shown on clock B.



Clock A



Clock B



..... hours minutes [1]

18 Put these calculations in order, starting with the smallest.



50×70

30×90

60×60

40×80

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--

smallest

largest

[1]

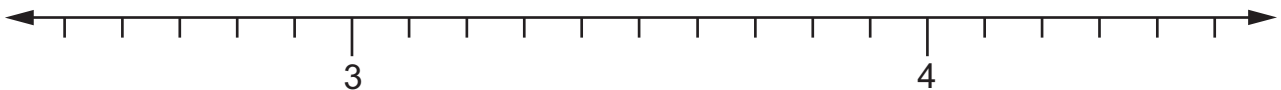
19 Join these fractions to the correct position on the number line.



$3\frac{7}{10}$

$3\frac{1}{2}$

$2\frac{4}{5}$

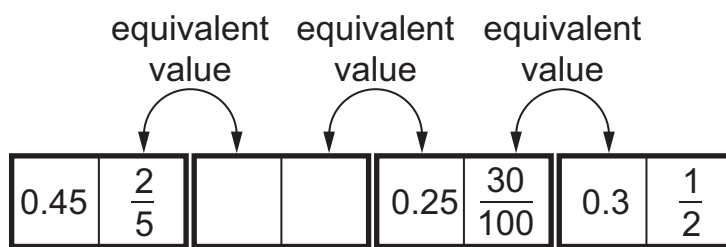


[2]

20 Four cards are placed in a row.



The numbers that touch on different cards are of equivalent value. One card has no numbers.



Draw a ring around the card that shows the missing numbers.

0.2	$\frac{2}{5}$
-----	---------------

0.4	$\frac{2}{5}$
-----	---------------

0.2	$\frac{1}{4}$
-----	---------------

0.4	$\frac{1}{4}$
-----	---------------

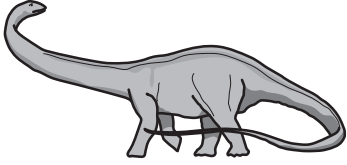
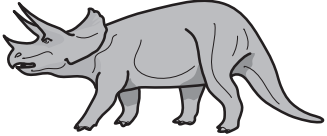

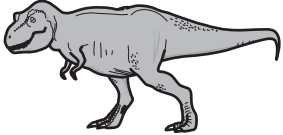
0.75	$\frac{2}{5}$
------	---------------

[1]

21 Here is a table showing the height of different dinosaurs.



Convert each measurement into metres.

Dinosaur	Height in cm	Height in m
 Diplodocus	500	
 Triceratops	820	
 Velociraptor	50	
 Tyrannosaurus Rex	480	

The pictures are not to scale.

[2]

22 Calculate.



$$1 - 0.17 = \boxed{}$$

[1]

23 Here is a bar chart showing the number of visitors to a museum.



Gabriella says,

'There were **twice** as many visitors on Saturday compared to Thursday.'

Is she correct? Yes No

Explain your answer.

.....
 [1]

24 Here is a vase containing red and white flowers.



There are 45 flowers altogether.
There are 5 red flowers to every 4 white flowers.

Write how many red flowers are in the vase.

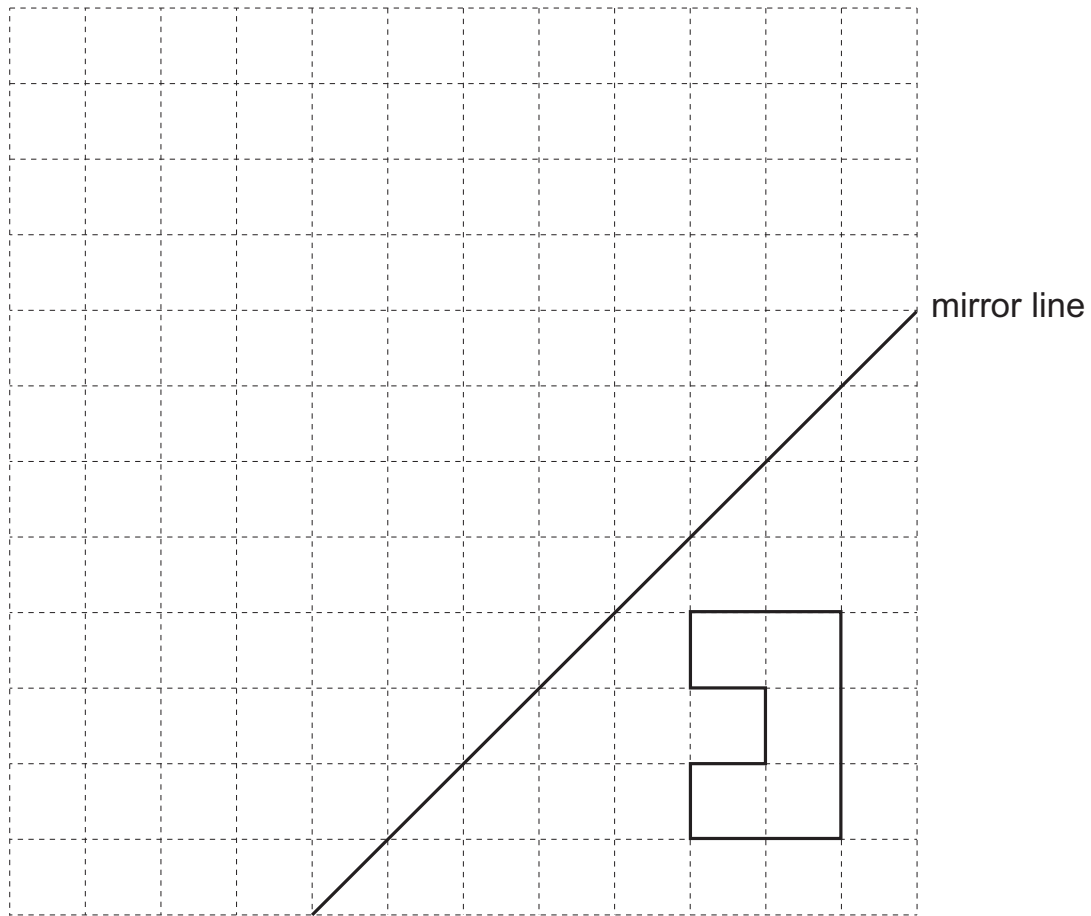
..... red flowers [2]

25 The mode of four numbers is 6
The range of the same four numbers is 5
Two of the numbers are 3 and 6

Write what the other two numbers could be.

..... and [2]

26 Here is a shape drawn on a grid.



The shape is reflected in the mirror line.

Draw the position of the new shape on the grid.

[1]

27 Write the missing number in the box.



$$5.76 + 1.35 = 5.8 +$$

[1]

28 Complete.



$6 \times 9 = \boxed{}$

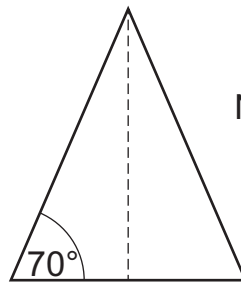
$0.6 \times 0.9 = \boxed{}$

$54 \div 0.6 = \boxed{}$

$5.4 \div 0.6 = \boxed{}$

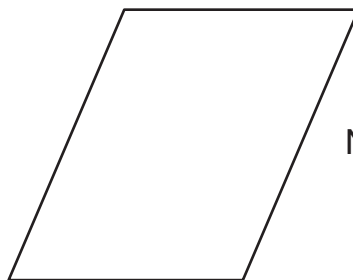
[2]

29 Lily has some identical tiles in the shape of an **isosceles** triangle.



Not drawn to scale

She arranges **two** tiles to make a parallelogram.



Not drawn to scale

Calculate the size of the largest angle of the parallelogram.
Show your working.

.....^o [2]

30 Here are four examples of calculation strategies.

 Some are correct and some are not correct.

Put a tick (✓) if the strategy is correct.

Put a cross (✗) if the strategy is not correct.

Calculation	Strategy	Correct/ not correct
$7.4 + 2.7$	$7.4 + 3 - 0.3$	
$10.2 - 6.8$	$10.2 - 7 + 0.2$	
$23.5 - 8.9$	$23.5 - 9 - 0.1$	
$2.8 + 13.6$	$13.6 + 3 + 0.2$	

[2]

31 Here are some number facts.



$$2 \times 16 = 32$$

$$5 \times 16 = 80$$

$$10 \times 16 = 160$$

Use these facts to calculate 18×16

You must show the answer and how you worked it out.

.....

.....

..... [1]