

# Year 7 Spring Assessment

## Non-Calculator

### Mathematics

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Name \_\_\_\_\_

Date \_\_\_\_\_

Teacher \_\_\_\_\_

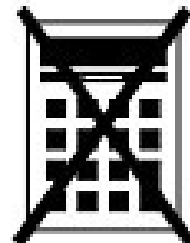
Time allowed 55 minutes

The maximum mark for this paper is **50**



#### Instructions

- Use a black or blue pen
- Calculator not allowed
- Draw diagrams in pencil
- Answer all questions
- You must answer the questions in the spaces provided
- Do all rough work in this booklet
- Cross through any work you do not want to be marked
- You must keep working until the end of the 55 minutes



#### Information

- The results of this assessment will be reported back to parents/carers.

1 Work out  $28 + 57$

[1 mark]

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Answer \_\_\_\_\_

2 Write each list of numbers in order of size.

Start with the smallest.

2 (a)

20 005

2500

2050

25 000

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[1 mark]

2 (b)

0.5

1.4

1

0.4

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[1 mark]

2 (c)

$\frac{5}{2}$

1

$\frac{9}{10}$

$\frac{1}{2}$

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[1 mark]

3 (a) Carly is thinking of a number.



Carly

When I double my number, the answer is 100

What number is she thinking of?

[1 mark]

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Answer \_\_\_\_\_

3 (b) Kane is thinking of a number.



Kane

My number is between 40 and 50  
It is a square number.

What number is he thinking of?

[2 marks]

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Answer \_\_\_\_\_

4 (a) Here is part of the morning timetable at a school.

History	9.05 to 9.50
Maths	9.55 to 10.45

Which lesson is longer?  
Show how you decide.

[2 marks]

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4 (b) Afternoon lessons start at 1.50

School finishes  $1\frac{1}{4}$  hours later.

Work out the time that school finishes.

[2 marks]

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Answer \_\_\_\_\_ pm

5 Work out  $64 \times 28$

[3 marks]

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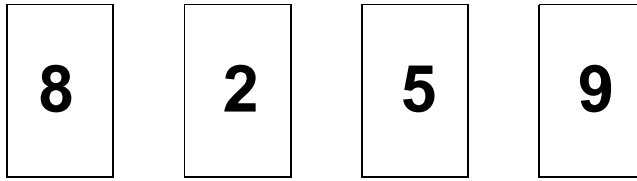
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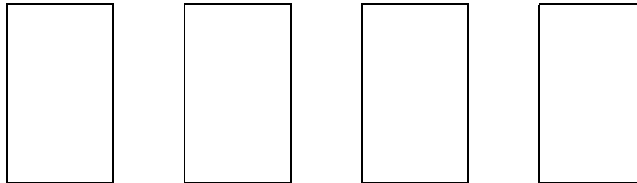
Answer \_\_\_\_\_

6 Here are four number cards.



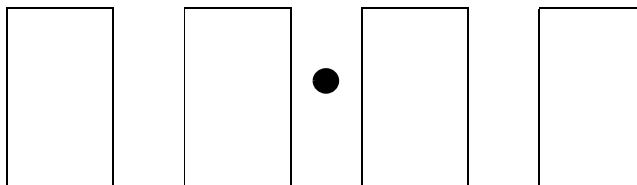
6 (a) Use **all four** cards to make the smallest possible number.

[1 mark]



6 (b) Use **all four** cards to make the decimal number that is closest to 60

[1 mark]



6 (c) Use **all four** cards to make the calculation true.

[1 mark]

$$\left( \square + \square \right) \times \left( \square - \square \right) = 40$$

7 (a) Work out  $32 \times 100$

[1 mark]

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Answer \_\_\_\_\_

7 (b) Work out  $270 \div 10$

[1 mark]

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Answer \_\_\_\_\_

7 (c) Work out  $0.8 \times 6$

[1 mark]

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Answer \_\_\_\_\_

7 (d) Work out  $0.4 \times 0.2$

[1 mark]

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Answer \_\_\_\_\_

8

Match each circle on the left with **one** box on the right.

One has been done for you.

[3 marks]

$$75\%$$

$$\frac{1}{2}$$

$$\frac{4}{6}$$

$$\frac{3}{8}$$



$$0.25$$

$$\frac{2}{3}$$

$$0.5$$

$$\frac{3}{4}$$

$$\frac{12}{32}$$

$$0.7$$

9

Circle the number that is written in standard form.

$0.9 \times 10^{-3}$

$6 \times 10^{0.5}$

$5.2 \times 10^{-4}$

$12 \times 10^7$

[1 mark]

10

The cost of a cake is £1.30

Molly buys one cake and two cups of tea.

She pays £3.70 altogether.

Work out the cost of one cup of tea.

[3 marks]

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Answer \_\_\_\_\_



**11** Leroy asked his friends how many days they had been absent from school this term.  
Here are the results.

1 0 4 2 0 1 1 0 0 3

**11 (a)** Work out the mean.  
Give your answer as a decimal.

**[2 marks]**

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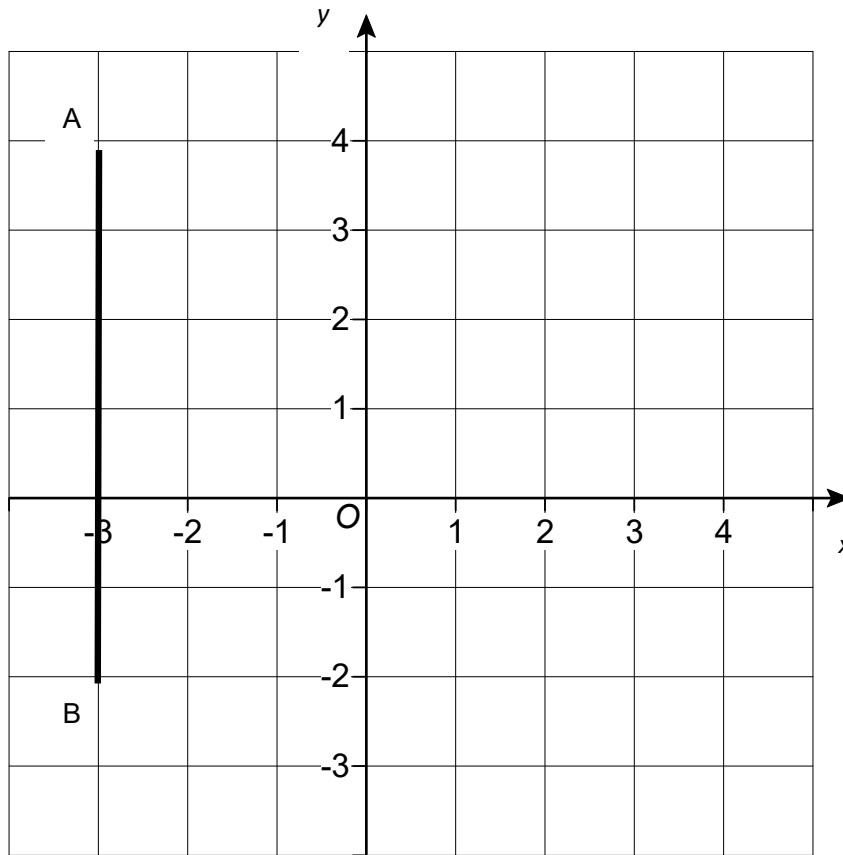
Answer \_\_\_\_\_

**11 (b)** Write down the mode.

**[1 mark]**

Answer \_\_\_\_\_

- 12 The line from A to B is drawn on the grid.  
A has coordinates  $(-3, 4)$



- 12 (a) Write down the coordinates of B.

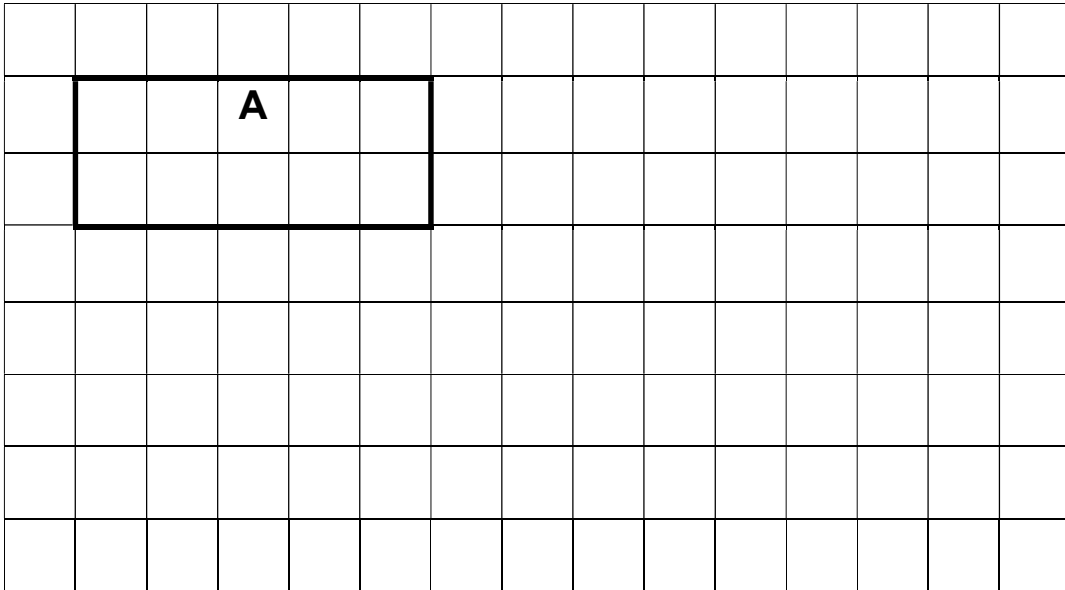
[1 mark]

Answer ( \_\_\_\_\_ , \_\_\_\_\_ )

- 12 (b) ABC is an isosceles triangle.  
On the grid, mark with a cross one possible position of C.

[1 mark]

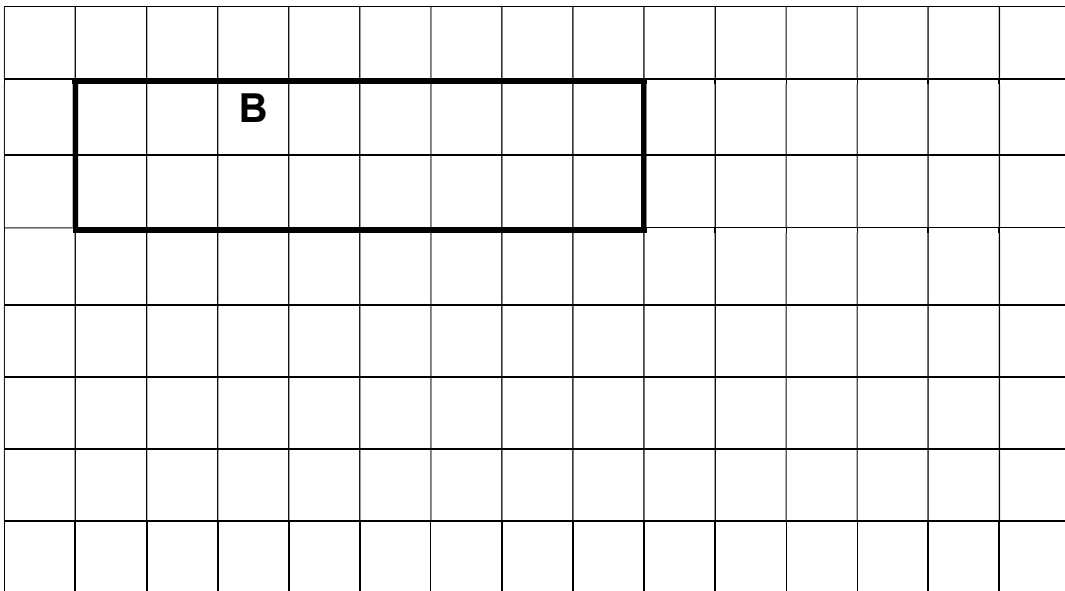
13 (a) Rectangle A has sides of length 2 cm and 5 cm



On the grid draw a **different rectangle** that has the **same perimeter** as rectangle A.

[1 mark]

13 (b) Rectangle B has sides of length 2 cm and 8 cm



On the grid draw a **square** that has the **same area** as rectangle B.

[1 mark]

14

Work out  $80\,000\,000 \div 200$

Give your answer in standard form.

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Answer \_\_\_\_\_

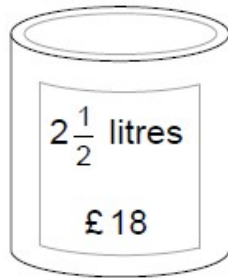
[2 marks]

15

Rob needs 9 litres of paint.

He buys the paint in  $2\frac{1}{2}$  litre tins.

Each tin of paint costs £18



Work out how much he spends.

[3 marks]

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Answer £ \_\_\_\_\_

16

Here are some numbers.

10 13 15 20 27 39

10 15 20 is a linear sequence.

Use **three** of the numbers to make a different linear sequence.

Describe the rule

Answer \_\_\_\_\_

Rule \_\_\_\_\_

[2 marks]

17

Write  $\frac{5}{8}$  as a division.

[1 mark]

\_\_\_\_\_

Answer \_\_\_\_\_

18

$$\begin{array}{r} 43\boxed{\phantom{0}}82 \\ 86\boxed{\phantom{0}}91 \\ + 130173 \\ \hline \end{array}$$

The missing digit in each number is the same.

What is the missing digit?

[2 marks]

\_\_\_\_\_

\_\_\_\_\_

Answer \_\_\_\_\_

19

Work out the value of  $3a + 5b$  when  $a = 2$  and  $b = 7$

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Answer \_\_\_\_\_

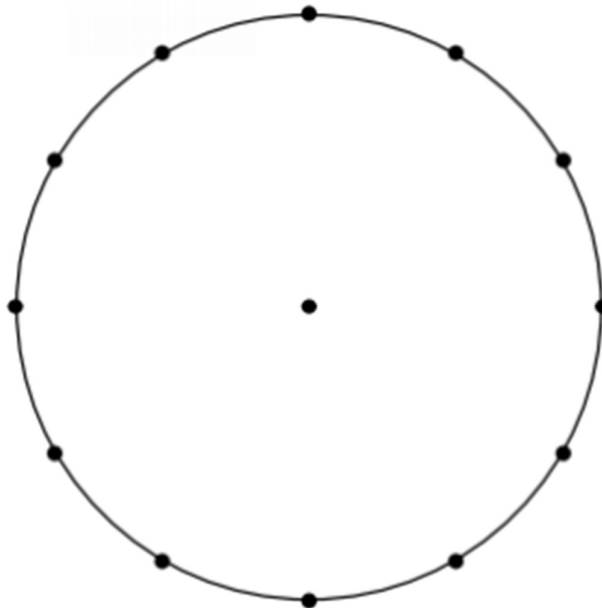
[2 marks]

20

60 people were asked if they would vote in an election.

- $\frac{1}{4}$  of the people said No
- 20 people said Yes
- The rest said Maybe

Draw and label a pie chart to show this information.



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[3 marks]