

# Practice Test

# Maths 11+

## Read the instructions carefully.

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- Do not begin the test or open the booklet until told to do so.
  - Work as quickly and as carefully as you can.
  - Each question will tell you whether to write an answer or ring the correct answer from the options given.
  - You may do rough working on a separate sheet of paper.
  - If you make a mistake cross out the mistake and write the new answer clearly.
  - You will have 50 minutes to complete the test.
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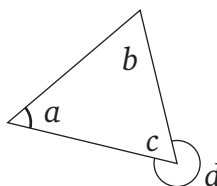
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- 1 If you need 6 apples to make a pie, how many pies can be made with 125 apples? \_\_\_\_\_
- 2 In the number 58 470, the digit 4 in this number has a value of 400. What is the value of the digit 8? \_\_\_\_\_
- 3 A plank is 4 m 6 cm long. It is cut in half. How long is each piece? \_\_\_\_\_

This triangle has angles  $a$ ,  $b$ ,  $c$  and  $d$ . Angle  $a$  is  $46^\circ$  and angle  $b$  is  $68^\circ$ .

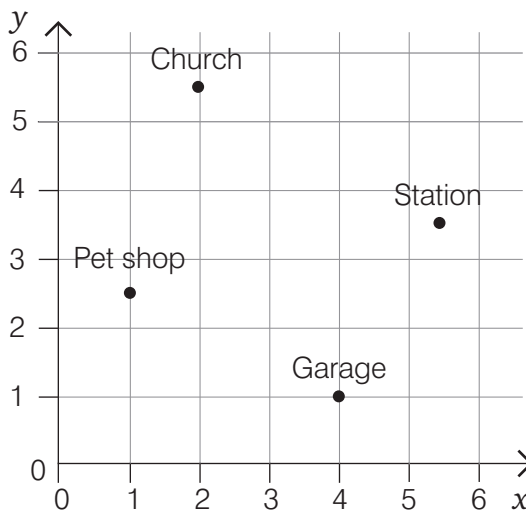
- 4 What is the size of angle  $c$ ? \_\_\_\_\_
- 5 What is the size of angle  $d$ ? \_\_\_\_\_



- 6 Jane is drawing a plan of her house. Her scale is 4 cm to 5 m. The hall is 10.5 m long. How long is the hall on her plan? \_\_\_\_\_ cm
- 7 Mike thought of a number. He halved it, then added 9. The answer was 45. What number did Mike think of? \_\_\_\_\_

Write the coordinates of:

- 8 The church (\_\_\_\_, \_\_\_\_)
- 9 The station (\_\_\_\_, \_\_\_\_)
- 10 The pet shop (\_\_\_\_, \_\_\_\_)
- 11 The garage (\_\_\_\_, \_\_\_\_)



- 12** Circle the group of numbers below that are all multiples of either 3 or 5.

8, 10, 12      12, 14, 15      15, 18, 20      18, 20, 22      20, 24, 26

☐ 1

- 13** A holiday costs £360 for an adult. It is £150 less for a child. How much is it for three adults and two children to go? \_\_\_\_\_

☐ 1

- 14** Circle the number with the largest value.

6.03      5.05      6.10      5.99      6.09

☐ 1

- 15** In the equation  $6a + 7 = 55 - 2a$ , what is  $a$ ? \_\_\_\_\_

☐ 1

- 16** Here are some scores in a test: 11, 18, 9, 1, 6, 15, 3. What is the mean?

\_\_\_\_\_

☐ 1

- 17** Which ratio is the equivalent to 27 : 36? Circle the correct answer.

6:7      9:18      8:9      3:4

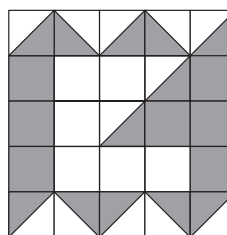
☐ 1

- 18** There are 45 pupils in a class.  $\frac{1}{9}$  travel to school by train.  $\frac{2}{5}$  travel by car.  $\frac{2}{9}$  travel by bus. The rest walk to school. How many walk? \_\_\_\_\_

☐ 1

- 19** What percentage of this shape is shaded?

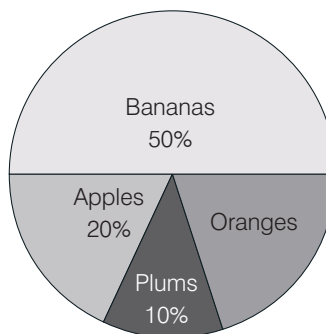
\_\_\_\_\_



☐ 1

- 20** 420 shoppers are asked about their favourite fruit. How many like oranges?

\_\_\_\_\_



☐ 1

**21** I spend 34p on the bus fare each weekday. How much do I spend a week?  
\_\_\_\_\_

1

**22** What is 2.467851 to two decimal places? \_\_\_\_\_

1

**23** Circle the fraction with the largest value:  $\frac{20}{24}$   $\frac{9}{12}$   $\frac{5}{6}$   $\frac{2}{3}$   $\frac{7}{8}$

1

**24** Here are five scores in a cricket match: 11, 23,  $x$ , 44, 7. The mean score was 18. What is the value of  $x$ ? \_\_\_\_\_

1

**25** What does  $6^5$  equal? Circle the correct answer.

$5 \times 5 \times 5 \times 5 \times 5 \times 5$      $6 \times 6 \times 6 \times 6 \times 6$      $6 \times 5$     65    56

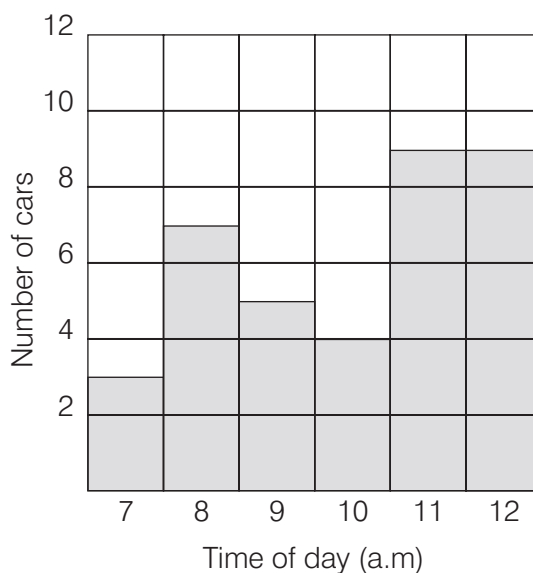
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**26**  $a = \frac{3}{5}$  of  $b$ . Circle the equation below that is not correct.

$5a = 3b$      $\frac{a}{b} = \frac{3}{5}$      $3a = 5b$      $a = \frac{3}{5}b$      $b = \frac{5}{3}a$

1

The bar chart shows the number of cars that went past a traffic survey checkpoint every hour.



**27** How many more went by at 11 a.m. than 7 a.m.? \_\_\_\_\_

1

**28** How many fewer went by at 9 a.m. than 12 p.m.? \_\_\_\_\_

1

A fruit bowl contains an apple, two pears and three oranges. You choose a fruit from the bowl without looking. Say whether each pair of statements are **both** true. Circle Yes or No.

- 29** You have a less than even chance of picking an apple.

You have a less than even chance of picking a pear. Yes No

☐ 1

- 30** You have an even chance of picking an orange.

You have a greater than even chance of picking an apple. Yes No

☐ 1

- 31** You have a greater than even chance of picking an orange.

You have a less than even chance of picking a pear. Yes No

☐ 1

- 32** You have a greater than even chance of picking a pear.

You have an even chance of picking an orange. Yes No

☐ 1

- 33** You are certain to pick a fruit.

You have a greater than even chance of picking an orange. Yes No

☐ 1

- 34** The area of a rectangle is  $48 \text{ cm}^2$ . What could be the perimeter of the rectangle? Circle the correct answer.

12 cm      14 cm      18 cm      28 cm      30 cm

☐ 1

- 35** Jamal will be  $a$  years old in four years' time. How old was he eight years ago in terms of  $a$ ? \_\_\_\_\_

☐ 1

- 36** There are 360 cars in the car park.  $\frac{1}{12}$  are red.  $\frac{2}{3}$  are green. The rest are silver. How many silver cars are there? \_\_\_\_\_

☐ 1

- 37** There are 300 paper clips in a box. How many paper clips in 7.5 boxes?

\_\_\_\_\_

☐ 1

- 38** Circle the number below that has the closest value to 2.

$1\frac{19}{25}$       172.8%      1.73      172.9%       $1\frac{19}{26}$

☐ 1

- 39** 80 cm of a 4.4 m stretch of road need repairing. What fraction is this? Circle the correct answer.

$\frac{1}{9}$

$\frac{1}{10}$

$\frac{3}{12}$

$\frac{4}{26}$

$\frac{2}{11}$

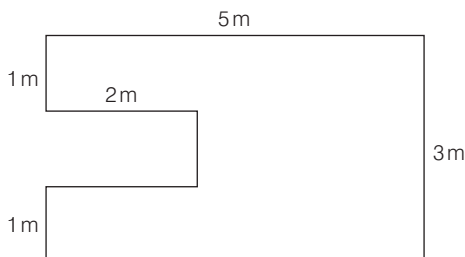
- 40** I am half as old as my sister. In six years' time she will be 22. How old am I?

\_\_\_\_\_

Look at this room plan.

- 41** What is the perimeter of the room?

\_\_\_\_\_



- 42** What is the area of the room?

\_\_\_\_\_

- 43** Carpet costs £8 a square metre. How much will it cost to carpet the room?

\_\_\_\_\_

I go to the supermarket and spend £3.50 on meat, 90p on bread, £2.50 on fruit, £3.75 on cheese, £2.15 on fruit juice and £1.45 on eggs.

- 44** How much have I spent? \_\_\_\_\_

- 45** How much change will I get from £20? \_\_\_\_\_

- 46** Steaks cost £4.99 each. A chef buys 125 for his restaurant. What is the total cost?

£499

£625

£623.75

£623.25

£626.25

When every space on the grid is filled in, each row and column adds up to 44.

- 47** What is the value of **A**? \_\_\_\_\_

- 48** What is the value of **B**? \_\_\_\_\_

17		<b>A</b>	44
12		15	44
	9	<b>B</b>	44
44	44	44	

**49** How should the time 4.45 in the morning be written? Circle the correct answer.

16.45

14.45

18.45

13.45

04.45

☐ 1

**50** A door is 5 feet 9 inches high. Which is closest to its height in metres? Circle the correct answer.

1.5 m

1.6 m

1.7 m

1.8 m

1.9 m

☐ 1

