11+

Practice Test

Set A: Paper 1

Read the following:

Do not open this booklet or start the test until you are told to do so.

1. This test can be taken in either multiple-choice or write-in format.
2. If you are taking it as a multiple-choice test you should mark your answer to each question in pencil on the separate answer sheet. Mark the correct box quickly and neatly using a horizontal line.
3. If you are taking it as a write-in test you should write your answer to each question in pencil on the paper. Write your answer carefully in the space provided or, if there is a range of options, mark the correct box quickly and neatly using a horizontal line.
4. If you make a mistake, rub it out and mark your new answer clearly.
5. There are six sections in this test.
6. The time allowed for each section is given at the start of that section. You will have a total of 45 minutes to complete the timed sections of the test.
7. Each section includes examples showing you how to answer the questions. You may refer to these examples at any time as you work through the section.
8. Do as many questions as you can. For some questions you will be given a range of options — if you get stuck on one of these questions, choose the answer that you think is most likely to be correct, then move on to the next question. If you get stuck on a question for which no options are given, leave it and move on to the next question. If you have time at the end of the section, go back and have another go at the questions you could not answer.
9. You should do any rough working on a separate piece of paper.

Work carefully, but go as quickly as you can.

SECTION 6: NUMERICAL REASONING

EXAMPLES

READ THESE EXAMPLE QUESTIONS. YOU MAY RETURN TO THESE EXAMPLES AT ANY TIME AS YOU WORK THROUGH THIS SECTION.

A Which of the following fractions is equivalent to $^{6}/_{8}$?

$^{3}/_{4}$ ☐ $^{1}/_{2}$ ☐ $^{10}/_{16}$ ☐ $^{18}/_{36}$ ☐ $^{1}/_{5}$ ☐

B Nassima bought 6 footballs. Each football cost £2.99.
How much did she spend in total?

£ 1 7 . 9 4

WAIT UNTIL YOU ARE TOLD TO GO ON

YOU HAVE 5 MINUTES TO COMPLETE THIS SECTION

THERE ARE 10 QUESTIONS IN THIS SECTION

1 This speedometer shows the current speed of a golf buggy. Its top speed is 13 km/h. How much quicker could it go?

1 km/h ☐ 2.5 km/h ☐ 3 km/h ☐ 4 km/h ☐ 4.5 km/h ☐

2 How many prime numbers are there between 4 and 20?

☐☐

3 Kala makes 35 pancakes. She gives two fifths of them to Tommy. Tommy then gives three sevenths of his pancakes to Len. How many pancakes does Tommy give to Len?

☐☐

4 Johnny ran a 200 m race. He finished in 24.8 s, rounded to the nearest tenth of a second. What is the shortest actual time that Johnny could have taken to complete the race?

☐☐ . ☐☐ s

5 What is $57 \times 14 + 43 \times 14$?

196 ☐ 1400 ☐ 10 570 ☐ 14 000 ☐ 23 142 ☐

6 Here is a section of a bus timetable.

Bus station	1630	1645	1703	1715	1735
St George	1648	1702	1719	1742	1750
Ham Green	1654	1709	1725	1749	1758
Sheepway	1707	—	1738	—	1812
Heron Gardens	—	1725	1744	1757	—
High Street	1714	1728	1748	1800	1819
Redcliff Bay	1725	1739	1800	—	1829

Dan needs to arrive in Redcliff Bay by quarter past six in the evening.

What is the last bus he could get from Ham Green?

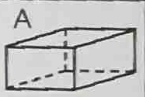
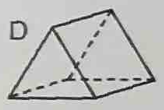
7 There are 36 red balls and 12 green balls in a bag.
What fraction of the balls are green?

$\frac{1}{3}$ ☐ $\frac{1}{2}$ ☐ $\frac{3}{4}$ ☐ $\frac{1}{4}$ ☐ $\frac{3}{10}$ ☐

8 Look at the sorting diagram to the right.

Which of the shapes shown has been sorted into the wrong section?

A ☐ B ☐ C ☐ D ☐ E ☐

	Prism	Pyramid
Even number of faces	A 	B 
Odd number of faces	C 	D  E 

9 Kirsten is doing an experiment with bacteria. She starts with 2 bacteria, and every hour the number of bacteria doubles.
How many bacteria will she have after 6 hours?

10 The right-angled triangle on the right has two missing angles.
What is the size of angle x?

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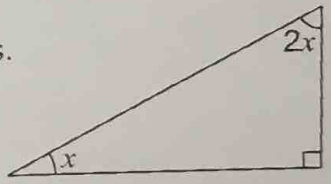

STOP — YOU MAY CHECK YOUR ANSWERS IN THIS SECTION ONLY