

The Halifax Grammar Schools Admissions Test : Mathematics

Read the following carefully.

- 1 The Mathematics Test consists of 40 questions. The time allowed for this test is 30 minutes.

**Please note: there are only 10 Questions on the Practice Paper
There are 40 Questions on the Actual Paper**

- 2 This is a multiple-choice test, in which you have to mark your answers to each question on the answer sheet.
- 3 Each of the questions in the test is followed by a choice of four possible answers: A B C D. Only **one** answer is right; the others are wrong.
- 4 For each question, choose the correct answer and make a clear pencil line in the box next to that answer on the answer sheet. An example of this is shown on the answer sheet.
- 5 If you wish to change an answer, be sure to rub out the mark completely before making another mark.
- 6 Be sure to keep your place on the answer sheet. Mark your answers in the column that has the same number as the test question.
- 7 You may not be able to finish all the questions, but try to do as many as you can. If you cannot do a question, do not waste time on it but go on to the next. If you are not sure of an answer, choose the one you think is best.
- 8 You will not be allowed to use a calculator, but you will need to use rough paper for working out your answers.
- 9 Please do not put any unnecessary marks on the answer sheet. You may write on the Question Booklet.
- 10 Complete the test using an HB pencil, a ruler and a rubber.
- 11 Remember you will have 30 minutes to do the test.

If you are unsure about how to mark your answers, say so now.

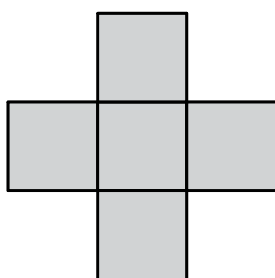
The Halifax Grammar Schools

Mathematics Test : Practice Questions

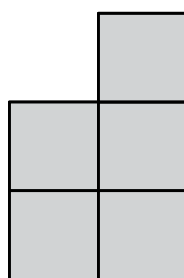
1 What is the missing number in the following? $36 \div \boxed{?} = 4$

- A 32
 - B 8
 - C 9
 - D 12
-

2 Shape A and shape B are each made from five identical squares. The **perimeter** of shape A is **72cm**. Work out the **perimeter** of shape B.



A



B

- A 30cm
 - B 60cm
 - C 72cm
 - D 50cm
-

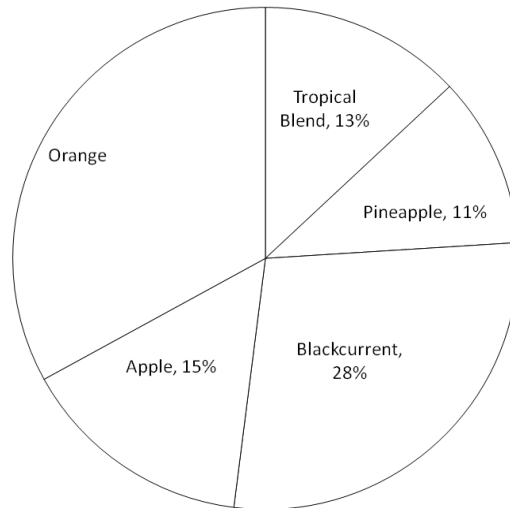
3 Buses leave Halifax to Elland every 9 minutes. Buses leave Halifax to Sowerby Bridge every 12 minutes. A bus to Elland and a bus to Sowerby Bridge both leave Halifax at 9 am. At what time will a bus to Elland and a bus to Sowerby Bridge next leave Halifax at the same time?

- A 10.12am
 - B 09.27am
 - C 10.48am
 - D 09.36am
-

4 I have a jar of sweets; after I have given each of the children in my class one sixteenth of sweets in the jar I have one quarter of the sweets left. How many children do I have in my class?

- A 4
- B 9
- C 16
- D 12

- 5 The pie chart shows the proportions of different drinks chosen from a machine in one day. There were 15 cartons of pineapple juice taken. How many cartons of orange juice were taken?



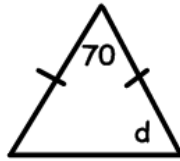
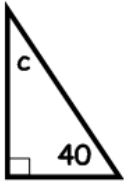
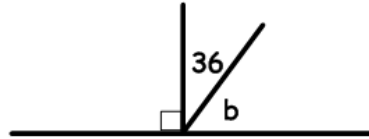
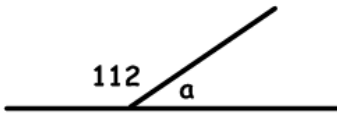
- A 33
B 35
C 45
D 120
-
- 6 If k is a whole number that is divisible by 2, 3 and 5 which one of the following must also be divisible by 2, 3 and 5.

- A $k + 6$
B $k + 15$
C $k + 30$
D $k + 45$
-

- 7 How many prime numbers are there between 20 and 30?

- A 2
B 3
C 4
D 5

8 In the diagrams below, which angle is the biggest? The diagrams are not drawn to scale.

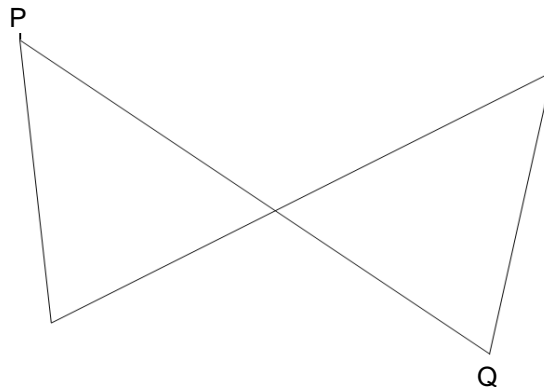


- A a
 - B b
 - C c
 - D d
-

9 Which of the following has the greatest value?

- A 50% of 10
 - B 40% of 20
 - C 30% of 30
 - D 20% of 40
-

10 How many different ways can I travel from P to Q? I can only travel on the lines shown and I must not go over any line more than once on a journey



- A 2
- B 3
- C 4
- D 5