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.

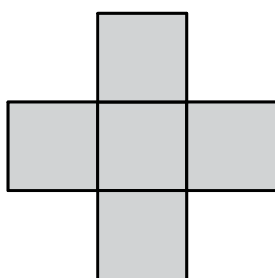   **If you are unsure about how to mark your answers, say**

The Halifax Grammar Schools

Mathematics Test : Practice Questions
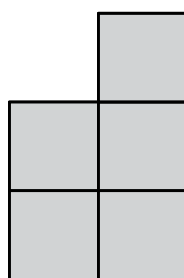
1   What is the missing number in the following? $36 \div \boxed{?} = 4$

    A   32

    B   8

    C   9

    D   12

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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
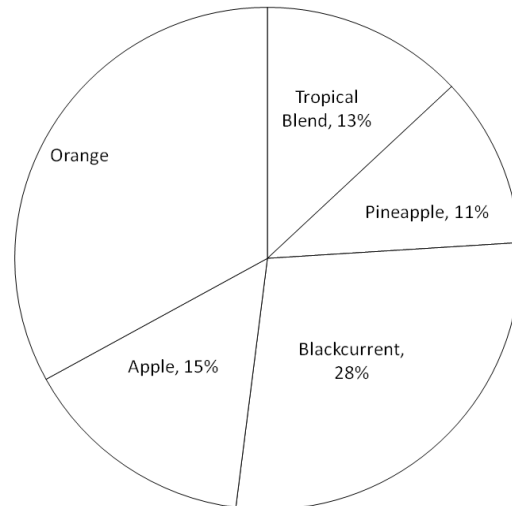
    B   60cm

    C   72cm

    D   50cm

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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

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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?
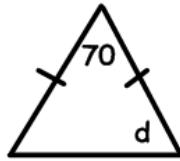

A   33

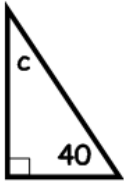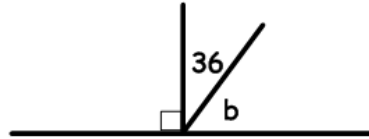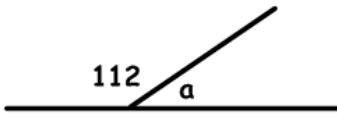B   35

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

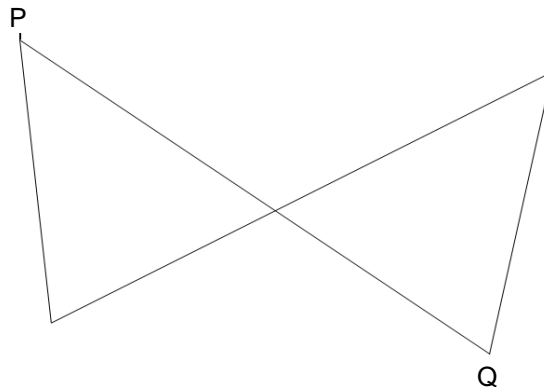8   In the diagrams below, which angle is the biggest?   The diagrams are not drawn to scale.

A   a

B   b

C   c

D   d

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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

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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