EPSOM

COLLEGE

11+ Entrance Examination

Specimen Paper

MATHEMATICS

Instructions for candidates

TOTAL TIME ALLOWED: 45 minutes

Answer all the questions.

Write your answers on the question paper in the spaces provided.

All working should be shown in the spaces provided.

If you are unsure about any question move onto the next question so that you *do not waste time*.

CALCULATORS ARE NOT ALLOWED

START OF QUESTIONS

1) Work out 5842 + 351

6193

(Total 1 marks)

2) Work out 2189 - 1056

1133

(Total 1 marks)

3) Work out 221 × 8

1768

(Total 1 marks)

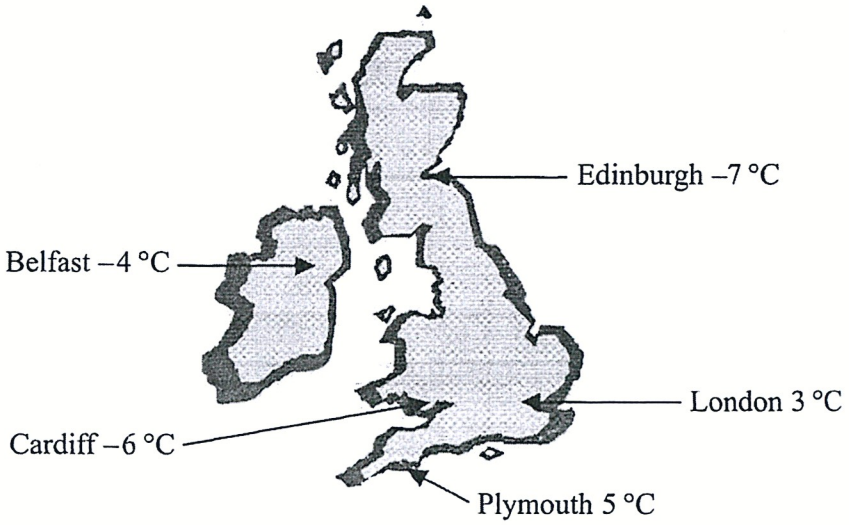
4) Work out 4336 ÷ 8

542

(Total 1 marks)

5) Here is a map of the British Isles.

The temperatures in some places, one night last winter are shown on the map.



(a) (i) Write down the names of the two places that had the biggest difference in temperature.

Edinburgh + Plymouth

(ii) Work out the difference in temperature between these two places.

12 °C

(3)

(b) Two pairs of places have a difference in temperature of 2 °C.
Write down the names of these places.

(i) London and Plymouth

(ii) Belfast and Cardiff

(2)

(Total 5 marks)

6) (a) Work out the value of $(2 + 3) \times 4 + 5$

25

(2)

(b) Add brackets ( ) to make each statement correct.

You may use more than one pair of brackets in each statement.

(i) $2 + 3 \times (4 + 5) = 29$

(ii) $(2 + 3) \times (4 + 5) = 45$

(4)

(Total 6 marks)

7) (a) Write 0.56 as a percentage. 56% **(1)**

(b) Write $\frac{3}{4}$ as a percentage. 75% **(1)**

(c) Write 60% as a fraction in its simplest form 3/5 **(2)**

(Total 4 marks)

8) Maggie buys

$1\frac{1}{2}$ kg of carrots at 64p per kg,

4 cakes at 35p each,

6 tins of soup at 43p each.

She pays with a £10 note.

Work out how much change she should get.

Total = £4.94

£ 5.06

(Total 3 marks)

9) Here is a list of numbers.

17 24 25 26 35 43 44

From the numbers in the list, write down

(i) the odd number that is larger than 40, ... 43 .....

(ii) the number that is a multiple of 7, ... 35 .....

(iii) two numbers that have a difference of 20, ... 24 ....., ... 44 .....

(iv) a prime number. ..... 17 or 43 .....

(Total 4 marks)

10) What number must fit into each box to make these calculations correct?

i) 27 [+64] = 91

ii) 58 [− 19] = 39

iii) [52] × 7 = 364

iv) 161 [÷ 7] = 23

(Total 4 marks)

11) Write these numbers in order of size. Start with the smallest number.

(i) 0.56, 0.067, 0.6, 0.65, 0.605

..... 0.067 0.56 0.6 0.605 0.65 ..... (2)

(iii) $\frac{1}{2}, \frac{2}{3}, \frac{2}{5}, \frac{3}{4}$

..... 2/5 , 1/2 , 2/3 , 3/4 ..... (2)

(Total 4 marks)

12) What is 15% of 300.

45

(Total 2 marks)

13) Use the information that

$$257 \times 34 = 8738$$

to find the value of

(a) 2.57×34

87.38

(2)

(b) $8738 \div 25.7$

340

(2)

(Total 4 marks)

14 a) Laura's family wins £54 in a raffle. They give £12 to charity and share the rest equally between the five family members. How much does each family member get?

54 - 12 = 42

42 ÷ 5

£8.40

(3)

(b) The charity spends 60% of the donation on buying equipment. How much of the donation is not spent?

40% of £12 =

£4.80

(3)

(Total 6 marks)

15) Chloe made a list of her homework marks.

4 5 5 5 4 3 2 1 4 5

(a) Write down the **mode** of her homework marks.

5

(1)

(b) Work out her **mean** homework mark.

3·8

(3)

(Total 4 marks)

END OF QUESTIONS