

# 11+ Maths

## Practice Paper 2

60 minutes

### Instructions:

You have 60 minutes to attempt all questions

Calculators must **not** be used

Show all your working out on this paper

There are 100 marks in total for this test

# 11+

**Date:**

**Score:**



1. Calculate:

(i)  $472 + 528$

Answer \_\_\_\_\_ [2]

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(ii)  $883 - 468$

Answer \_\_\_\_\_ [2]

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2. Work out:

$68 + 3624 + 705$

Answer \_\_\_\_\_ [2]

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3. Calculate:

(i)  $87 \times 5$

Answer \_\_\_\_\_ [2]

(ii)  $689 \times 8$

Answer \_\_\_\_\_ [2]

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4. Work out:

(i) 65,160 divided by 12

Answer \_\_\_\_\_ [2]

(ii)  $3,728 \div 8$

Answer \_\_\_\_\_ [2]

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5.

Add together:

Three thousand four hundred and nineteen

AND

Two thousand seven hundred and three

Answer \_\_\_\_\_ [2]

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6.

(i) Paula goes to the shop and buys 3 pieces of fruit at 47p each. She also buys 4 packets of stickers. She pays with a £5 note and gets 47p change in return. How much is 1 packet of stickers?

Answer \_\_\_\_\_ [3]

(ii) Clara has 87p in her purse, made up of five different British coins. What are the coins?

Answer \_\_\_\_\_ [2]

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7.

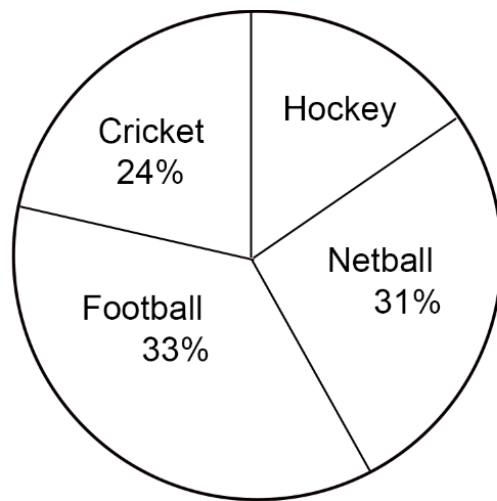
(i) Steve is thinking of a number. He trebles it, then adds 14. He subtracts 9 and finally divides by 5 and ends up with 10. What is the number he was originally thinking of?

Answer \_\_\_\_\_ [2]

(ii) Jamie and Ritu divide their 342 badges into a ratio of 5:4. If Jamie has the most badges, how many badges does Ritu end up with?

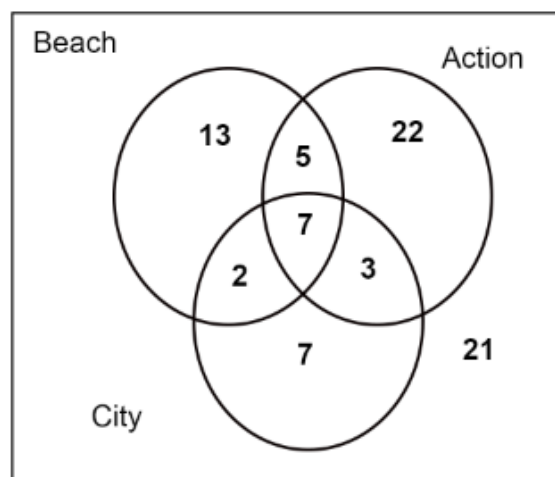
Answer \_\_\_\_\_ [2]

8. A group of pupils were asked to name their favourite sport and the results recorded in this pie chart. 148 pupils said cricket. How many said Hockey?



Answer \_\_\_\_\_ [3]

9. A group of people were asked which types of holiday they liked and the results shown in this Venn diagram.



(i) How many people didn't like any of the holidays?

Answer \_\_\_\_\_ [1]

(ii) How many people liked all of the holidays?

Answer \_\_\_\_\_ [2]

(iii) What fraction of the total people asked only liked Action holidays? Simplify your answer as far as you can.

(iv) What percentage of people liked either Beach or Action holidays, or both, but didn't like City holidays?

Answer \_\_\_\_\_ [2]

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10. The following distances in miles between five towns are from Manchester.

|     |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|
| 82  | Town A |        |        |        |        |
| 49  | 63     | Town B |        |        |        |
| 133 | 108    | 27     | Town C |        |        |
| 64  | 51     | 66     | 26     | Town D |        |
| 54  | 36     | 19     | 32     | 66     | Town E |

(i) Which town is nearest to Manchester?

Answer \_\_\_\_\_ [1]

(ii) How far is Town D from Town B?

Answer \_\_\_\_\_ [1]

(iii) Jack has to travel from Town C to Town B, then from Town B to Manchester. How far will he have to travel?

Answer \_\_\_\_\_ [2]

11. Fill in the empty to square to make the following sums correct:

(i)  $\square + 76 = 248$

Answer \_\_\_\_\_ [2]

(ii)  $2467 - \square = 388$

Answer \_\_\_\_\_ [2]

(iii)  $26 \times \square = 1,118$

Answer \_\_\_\_\_ [2]

(iv)  $376 \div \square = 47$

Answer \_\_\_\_\_ [2]

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12. Find the missing numbers in these sequences and write them on the lines.

(i) 17, 26, \_\_\_\_\_, 44, \_\_\_\_\_

[2]

(ii) 96, 89, 81, 72 \_\_\_\_\_, \_\_\_\_\_

[2]

(iii) 2, 3, 5, 7, 11, 13, \_\_\_\_\_, \_\_\_\_\_

[2]

(iv) 4, 3, 7, 10, 17, \_\_\_\_\_, 44, \_\_\_\_\_

[2]

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13. Krishan is examining a triangle. He notices that two of the angles are identical at 66 degrees.

(i) What is the name of this triangle?

Answer \_\_\_\_\_[1]

(ii) Krishan is now looking at two different rectangles. Rectangle A has a width of 40cm and a length of 50cm. Rectangle B has a width 25% more than Rectangle A and a length 50% more than Rectangle A. Calculate the total area of the two rectangles.

Answer \_\_\_\_\_[4]

(iii) What is the total perimeter of the two rectangles?

Answer \_\_\_\_\_[4]

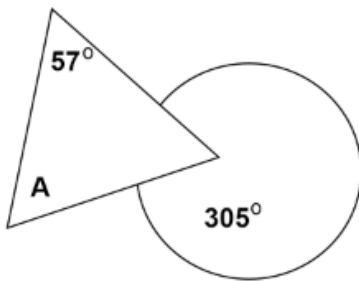


14. There are 160 students in the year. The number of girls is 38 fewer than two times the number of boys. How many boys are there in the year?

Answer \_\_\_\_\_ [3]

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15. Calculate the size of angle A: (not drawn to scale)



Answer \_\_\_\_\_ [2]

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16. (i) Ranjeet is driving from her home to her parents' house. She leaves at 07:00 and arrives at 11:30. She was driving at 60mph. How far is it from Ranjeet's house to her parents' house?

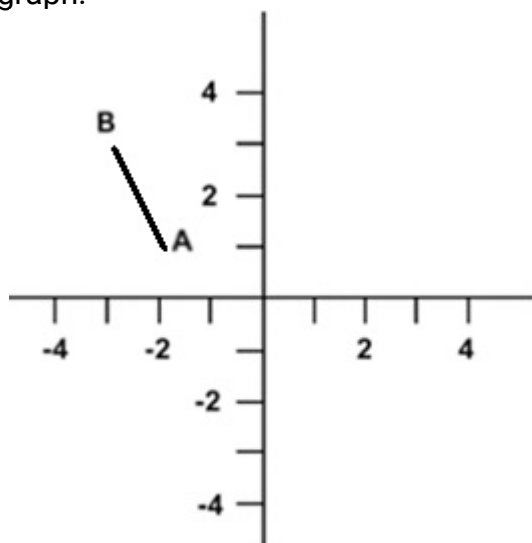
Answer \_\_\_\_\_ [2]

(ii) Ranjeet then leaves at 20:00 and drives to her friend's house 105 miles away. She arrives at 21:30. What was Ranjeet's speed in mph?

Answer \_\_\_\_\_ [2]

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17. Look at this graph:



(i) Triangle ABC is an equilateral. Point C is the leftmost point on the graph. What are the co-ordinates of point C?

Answer \_\_\_\_\_ [2]

(ii) The triangle is reflected in the x axis. What are the co-ordinates of point B after the reflection?

Answer \_\_\_\_\_ [2]

(iii) The original triangle is reflected in the y-axis. What are the co-ordinates of point A after the reflection?

Answer \_\_\_\_\_ [2]

(iv) The original triangle is translated by (4,-3). What are the co-ordinates of point A after the translation?

Answer \_\_\_\_\_ [2]

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18. Roberta goes to the shop with her friend Claire. Roberta buys 6 pencils and 5 pens and the total cost is £12.40. Claire buys 2 pencils and 1 pen and the total cost is £3.60. How much does one pencil cost?

Answer \_\_\_\_\_ [3]

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19. The two digits of a two digit number add up to 13. The tens value is one more than twice the value of the unit value. What is the value of the unit value?

Answer \_\_\_\_\_ [2]

20. Karmen had 78 games. She gave one sixth to her friends. Of the remainder, she gave one fifth to her sister. How many games does Karmen have left?

Answer \_\_\_\_\_ [3]

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21. There are 2,212 vehicles on the motorway. A quarter of them are lorries. Five sevenths of the lorries have a satellite navigation system. How many lorries don't have a satellite navigation system?

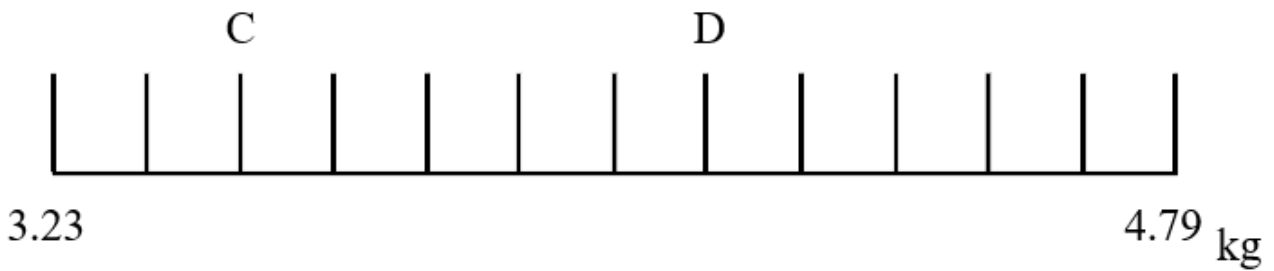
Answer \_\_\_\_\_ [3]

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22. The tank in the factory can hold 480 litres of water. The workers fill it up at 600ml a second. How long will it take to fill the container?

Answer \_\_\_\_\_ [3]

23. The factory is weighing packages on its special scales. How much heavier is package D than package C?



Answer \_\_\_\_\_ [2]

\_\_\_\_\_

24. What is the name of a shape that has two pairs of sides that are of equal length, one pair of diagonally opposite angles that are equal, only one diagonal that is bisected by another and the diagonals cross at 90 degrees?

Answer \_\_\_\_\_ [2]

\_\_\_\_\_

25. What 3D shape has no edges, no vertices and one curved face?

Answer \_\_\_\_\_ [2]

\_\_\_\_\_

26. What 3D shape has 8 vertices, 12 edges and 6 square faces?

Answer \_\_\_\_\_ [2]

**END OF TEST**