11 Plus Maths

Paper 5

Total marks: 65
Time allowed: 1 hour

Full name .....

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Write your answers to each question along with all of your working in the spaces provided beneath each question.

Good luck!

1. **Calculate the answers to the following 4 questions:**

   a) 48 + 37 = _____

   b) 63 - 24 = _____

   c) 89 x 7 = _____

   d) 64 ÷ 3 = _____

_____ (8)

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2. **On a visit to the supermarket I am looking for oranges. They cost 7p each so how many can I buy with my £1.33?**

_____oranges (2)

3. **If the 15:45 school bus left school 19 minutes late, at what time did it leave?**

_____ (2)

4. **How much should I receive in change from the shop owner if I spend £12 . 87 in their shop when I give them a £20 note?**

_____ (2)

5. **What is the volume of a box of tissues which measures 17cm by 9cm by 2 cm?**

_____ (2)

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6. Calculate the area of a square whose perimeter measures 36cm.

_____ (2)

7. Write 23 tenths as a decimal.

_____ (2)

8. Express the number 72 as a pair of numbers multiplied together in two different ways:

_____ and _____ OR _____and _____ (2)

9. How many 7 a-side teams can be made from 4 classes of 21 children?

_____teams (2)

10. How many hours are in total during April , June and November?

_____hours (2)

11. What is the product of 12 and 13?

_____ (1)

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12. **Which of the following letters will look exactly the same when rotated through 180 degrees about their centre point?**

P I C H X

_____ (2)

13. **What percentage of 2 kg is 250g?**

_____% (2)

14. **If I roll two fair dice, which of the scores, 3 , 7 and 12 am I less likely to get?**

_____ (2)

15. **A large pizza serves 4 people and needs 75 grams of cheese to make it. If I want to have enough pizza for 16 people , how many grams of cheese will I need?**

_____grams (4)

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16. **On an Ordnance Survey map 8 cm represents 1 kilometre. How many millimetres on the map represent 375 metres?**

_____mm (2)

17. **Given that 456 x 87 = 39672, what is the value of 2.28 x 0.87?**

_____ (2)

18. **At a birthday party a tin of sweets was divided equally between 4 boys and each of them were given 24 sweets each. If the same tin of sweets was divided equally between 6 boys how many sweets would each boy receive?**

_____sweets (3)

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19. **Edward purchased 8 trees and 3 roses from the garden centre. Mike bought 8 roses and 3 trees from the same garden centre. Edward paid £1.25 more than Mike did. How much was a tree if each rose cost 45p?**

_____ pence (3)

20. **A container has a mass of 8 kilograms when full of ice-cream, and it has a mass of 4.5 kilograms when half of the ice-cream has been eaten. What will it's mass be when a quarter of the ice-cream remains?**

_____kg (4)

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21. An empty rectangular tank with a base area of 2400cm² is being filled with fuel from two taps. One of the taps can fill with 12 litres of fuel per minute and the Second tap can do it in 3 litres less per minute.

(a) What will be the depth of fuel in the tank after both taps have been on for 6 minutes?

(b) If fuel leaks from the tank at a rate of 2 litres per minute for 6 minutes, what will be the depth of fuel in the tank?

Answers: (a)_____cm (2)

(b)_____cm (2)

22. In the UK maths challenge you gain 5 marks for a correct answer, you lose 2 marks for an incorrect answer and you lose no marks if you simply leave a question out.

If a challenge has 25 questions in total and Daniel gets 11 correct answers and leaves 7 questions unanswered: what score does Daniel achieve?

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_____ (3)

23. In a scalene triangle which has angles of x^0, y^0 and z^0 if the mean of x and y is z, what is the value of z?

_____ (3)

24. Sir Know-it-all has lots of tables and chairs ready for a banquet. Each round table can seat 8 guests and each rectangular table can seat 6 guests. If there are 35 guests arriving what is the smallest number of tables that he can use so that all seats are sat in around each table used?

_____ (4)

Total / 65

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Answers:

1. a) 85
   b) 39
   c) 623
   d) 21 remainder 1 **OR** 21.33333… **OR** 21 ⅓.

2. 19 oranges

3. 16 : 04

4. £ 7 . 13

5. 306 cm²

6. 81 cm²

7. 2 . 3

8. 8 and 9 , 12 and 6 , 4 and 18 , 3 and 24 , 2 and 36

9. 12 teams

10. 2160 hours

11. 156

12. I, H, X

13. 12.5%

14. 12

15. 300 grams

16. 30 mm

17. 1.9836

18. 16 sweets

19. 70 pence

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20. 2.75 kg

21. a) 52.5 cm
    b) 47.5 cm

22. 41

23. 60^{o}

24. 5

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