Year 6 SATs Reasoning Paper 2

You have 40 minutes to complete this reasoning paper. Show all working clearly. Diagrams are not to scale unless stated.

1. Amy buys 3 books costing '4.75 each. How much does she spend?

_____

2. What is the missing number: 3.6 + ___ = 7.1?

_____

3. A rectangle has an area of 48cm' and a width of 6cm. What is its length?

_____

4. What is the next number in the sequence: 2, 5, 10, 17, ___?

_____

5. James has 3/5 of his money left. He spent '12. How much did he have originally?

_____

6. Draw the reflection of this shape in the mirror line. [Diagram placeholder]

_____

7. Calculate the mean of these numbers: 4, 8, 10, 6

_____

8. What is the volume of a cuboid 3cm ' 4cm ' 5cm?

_____

9. A jug contains 2.5L of water. 850ml is poured out. How much is left?

_____

10. 45% of the pupils in a school are girls. There are 540 pupils. How many are girls?

_____

11. Shade 2/3 of this shape. [Diagram placeholder]

_____

12. A class votes for favourite fruit: 8 like apples, 12 bananas, 10 grapes. What fraction like bananas?

_____

13. The temperature was '3'C in the morning and 5'C in the afternoon. What was the difference?

_____

14. 2/3 of a number is 42. What is the number?

_____

15. A train leaves at 09:45 and arrives at 11:28. How long is the journey?

_____

16. Find the missing angle in a triangle with angles 75' and 60'.

_____

17. A scale model has a ratio 1:20. If the model height is 6cm, what is the real height?

_____

18. Circle all prime numbers: 11, 16, 19, 21, 23

_____

19. A container holds 3.5 litres. How many 250ml cups can it fill?

_____

20. Write the next two terms: 2, 6, 18, 54, ___, ___

_____

21. Estimate: 421 ' 59

_____

22. A rectangle's perimeter is 30cm. One side is 9cm. What is the other side length?

23. Match the fractions, decimals and percentages: 0.25, 1/2, 75%, 0.6

_____

24. Divide '84 equally between 6 people. How much each?

_____

25. A shop gives 15% discount on a '60 coat. What is the new price?

_____

26. What is the missing number: 8 ' ___ = 3,144?

_____

27. A pie chart shows 3/8 of people chose blue. If 80 people were surveyed, how many chose blue?

_____

28. What is the product of the first two prime numbers?

_____

29. Solve: 2x + 5 = 21

_____

30. A shape has 2 pairs of equal sides and 1 right angle. What is it?

_____