



Year 6 SATs Reasoning Paper 3

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

1. What is the missing number: $2.4 + \underline{\quad} = 7.1$?

2. A square has an area of 81 cm^2 . What is its perimeter?

3. Circle the nets that will make a cube. [Diagram placeholder]

4. A shape has one line of symmetry and 4 equal sides. What is it?

5. Joe has $\text{£}1.50$. He buys a pen for 65p. How much change does he get?

6. A line is 9cm long. It is increased by 35%. What is its new length?

7. Find the missing angle in a quadrilateral if three angles are 80° , 95° and 100° .

8. A shop has 24 boxes of pencils. Each box has 15 pencils. How many pencils altogether?

9. What is the probability of rolling a 6 on a fair dice?

10. Convert 2.6kg to grams.

11. Write a number between $\frac{3}{5}$ and $\frac{2}{3}$.

12. How many edges does a cuboid have?

13. Round 6.479 to 2 decimal places.

14. Which of these are multiples of 12: 36, 44, 60, 73?

15. A shape is rotated 90° clockwise. Draw the result. [Diagram placeholder]

16. Complete the sequence: 1, 3, 6, 10, ____, ____

17. Write the missing number in the equation: $9 \times \underline{\hspace{1cm}} = 2,457$

18. What is the mean of these numbers: 5, 10, 15, 20, 25?

19. What time is 45 minutes after 2:35pm?

20. The scale on a map is 1cm : 50km. How far is 4.5cm?

21. Which is larger: $\frac{3}{4}$ or 0.78?

22. A class survey shows: Red - 12, Blue - 8, Green - 5. What fraction chose blue?

23. What is the value of $6'$?

24. Add: $4\frac{1}{2} + 2\frac{2}{3} =$

25. Solve: $3n + 2 = 17$

26. A jug has 1.75L of juice. You pour out 850ml. How much is left?

27. What's the mode of: 7, 3, 9, 7, 4, 6, 7?

28. A pizza is cut into 8 slices. If $\frac{3}{4}$ are eaten, how many are left?

29. Convert 345cm to metres.

30. Estimate the product: 62×38
