



## Year 7 Autumn Term – Week 1

### Baseline Assessment

#### Section A: Number Sense (10 marks)

1. Write 4,305 in words.
2. Round 8,647 to the nearest 100.
3. Calculate: a)  $567 + 289$  b)  $924 - 378$  c)  $36 \times 7$  d)  $128 \div 4$
4. Write the first 6 multiples of 9.
5. Find the Highest Common Factor (HCF) of 24 and 36.

#### Section B: Fractions, Decimals, Percentages (10 marks)

6. Simplify  $18/24$ .
7. Write 0.75 as a fraction.
8. Calculate: a)  $3/4 + 2/3$  b)  $7/8 - 1/4$
9. Find 20% of 450.
10. A dress costs £60. It is reduced by 25%. What is the new price?

#### Section C: Geometry & Measures (10 marks)

11. Name the 3D shape with: 6 faces, 8 vertices, 12 edges.
12. Draw and label a right angle.
13. Find the perimeter of a rectangle measuring 12 cm by 8 cm.
14. The area of a triangle is  $30 \text{ cm}^2$ . Its base is 10 cm. What is the height?
15. A jug contains 1.5 litres of water. How many millilitres is this?
16. A line measures 7.8 cm. Round this to the nearest cm.
17. Convert 3.5 km into metres.

#### Section D: Algebra Foundations (10 marks)

18. Simplify: a)  $3a + 2a$  b)  $5x - 2x$



19. Solve for x: a)  $x + 7 = 15$  b)  $3x = 24$

20. Expand:  $2(x + 4)$

21. Write an expression for: a) 5 more than a number n b) Twice a number y minus 3

22. A rectangle has length l and width w. Write a formula for its perimeter.

**Section E: Problem Solving & Reasoning (Extension – 5 marks)**

23. A shop sells pencils at 35p each. You buy 12 pencils. How much do you pay?

24. A train leaves London at 09:45 and arrives in Birmingham at 11:10. How long is the journey?

25. The perimeter of a square is 48 cm. What is the length of one side?



## **Teacher's Answer Sheet**

1. Four thousand three hundred and five

2. 8,600

3a. 856   b. 546   c. 252   d. 32

4. 9, 18, 27, 36, 45, 54

5. 12

6.  $\frac{3}{4}$

7.  $\frac{3}{4}$

8a.  $\frac{17}{12}$  or  $1\frac{5}{12}$    b.  $\frac{5}{8}$

9. 90

10. £45

11. Cube

12. Right angle sketch

13. 40 cm

14. 6 cm

15. 1500 ml

16. 8 cm

17. 3500 m

18a.  $5a$    b.  $3x$

19a. 8   b. 8

20.  $2x + 8$

21a.  $n + 5$    b.  $2y - 3$

22.  $2l + 2w$

23. £4.20

24. 1 hour 25 minutes



25.12 cm