📊 **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 × 7   d) 128 ÷ 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 cm². 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. 3/4

7. 3/4

8a. 17/12 or 1 5/12   b. 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