

|      |         |         |       |       |
|------|---------|---------|-------|-------|
| Name | Block D | Sheet 4 | Class | Score |
|      |         |         |       | /44   |

**Section A**

**Division**

1)  $95 \div 5 =$  \_\_\_\_\_

2)  $50 \div 10 =$  \_\_\_\_\_

3)  $72 \div 8 =$  \_\_\_\_\_

4)  $130 \div 2 =$  \_\_\_\_\_

5)  $104 \div 4 =$  \_\_\_\_\_

6)  $63 \div 3 =$  \_\_\_\_\_

7)  $200 \div 200 =$  \_\_\_\_\_

8)  $3 \div 8 =$  \_\_\_\_\_

9)  $261 \div 3 =$  \_\_\_\_\_

10)  $261 \div 4 =$  \_\_\_\_\_

**Section C**

**Ratio**

Simplify:

1) 8:6 \_\_\_\_\_

2) 6:8 \_\_\_\_\_

3) 9:15:30 \_\_\_\_\_

4) 15:15:15 \_\_\_\_\_

5) 9:3:9:3 \_\_\_\_\_

Share:

1) £120 in the ratio 3:5 \_\_\_\_\_

2) £130 in the ratio 10:3 \_\_\_\_\_

3) £140 in the ratio 3:4 \_\_\_\_\_

4) \$150 in the ratio 5:10:15 \_\_\_\_\_

5) 160m in the ratio 1:2:1 \_\_\_\_\_

**Section B**

**Algebra**

Solve:

1)  $9x = 108$   $x =$  \_\_\_\_\_

2)  $4x + 1 = 37$   $x =$  \_\_\_\_\_

3)  $4x - 5 = 39$   $x =$  \_\_\_\_\_

4)  $8x + 12 = 92$   $x =$  \_\_\_\_\_

Factorise:

1)  $6x + 7$  \_\_\_\_\_

2)  $3x + 9$  \_\_\_\_\_

3)  $3xz + 9yz$  \_\_\_\_\_

4)  $6x^2 + 6z$  \_\_\_\_\_

Expand:

1)  $12(x - 12)$  \_\_\_\_\_

2)  $4(3x + 10)$  \_\_\_\_\_

3)  $6x(2x - 5)$  \_\_\_\_\_

4)  $5x(3z - 2x)$  \_\_\_\_\_

**Section D**

**Percentage increase/ decrease**

Find:

1) 20% of 80 \_\_\_\_\_

2) 25% of 80 \_\_\_\_\_

3) 41% of 80 \_\_\_\_\_

4) 91% of 80 \_\_\_\_\_

Increase:

1) £46 by 10% \_\_\_\_\_

2) \$40 by 15% \_\_\_\_\_

3) 22m by 3% \_\_\_\_\_

4) 100m by 85% \_\_\_\_\_

Decrease:

1) £40 by 30% \_\_\_\_\_

2) \$50 by 15% \_\_\_\_\_

3) 60m by 65% \_\_\_\_\_

4) 70m by 70% \_\_\_\_\_