

Name	Block D	Sheet 6	Class	Score /44
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**Section A**

**Division**

1)  $27 \div 3 =$  \_\_\_\_\_

2)  $64 \div 8 =$  \_\_\_\_\_

3)  $54 \div 6 =$  \_\_\_\_\_

4)  $121 \div 11 =$  \_\_\_\_\_

5)  $132 \div 12 =$  \_\_\_\_\_

6)  $132 \div 6 =$  \_\_\_\_\_

7)  $90 \div 45 =$  \_\_\_\_\_

8)  $5 \div 8 =$  \_\_\_\_\_

9)  $256 \div 8 =$  \_\_\_\_\_

10)  $256 \div 5 =$  \_\_\_\_\_

**Section C**

**Ratio**

Simplify:

1) 21:28 \_\_\_\_\_

2) 6:30 \_\_\_\_\_

3) 9:3:45 \_\_\_\_\_

4) 12:36:6 \_\_\_\_\_

5) 8:2:8:4 \_\_\_\_\_

Share:

1) £50 in the ratio 7:3 \_\_\_\_\_

2) \$50 in the ratio 3:2 \_\_\_\_\_

3) £120 in the ratio 1:5 \_\_\_\_\_

4) \$48 in the ratio 1:10:1 \_\_\_\_\_

5) 20m in the ratio 3:1 \_\_\_\_\_

**Section B**

**Algebra**

Solve:

1)  $3x = 12$   $x =$  \_\_\_\_\_

2)  $4x + 5 = 29$   $x =$  \_\_\_\_\_

3)  $6x - 9 = 3$   $x =$  \_\_\_\_\_

4)  $6x + 15 = 18$   $x =$  \_\_\_\_\_

Factorise:

1)  $3x + 30$  \_\_\_\_\_

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

3)  $8x - 4xc$  \_\_\_\_\_

4)  $16x^2 + 8z$  \_\_\_\_\_

Expand:

1)  $4(x + 8)$  \_\_\_\_\_

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

3)  $4x(5x + 4v)$  \_\_\_\_\_

4)  $20v(20v - 20c)$  \_\_\_\_\_

**Section D**

**Percentage increase/ decrease**

Find:

1) 10% of 150 \_\_\_\_\_

2) 15% of 150 \_\_\_\_\_

3) 6% of 150 \_\_\_\_\_

4) 99% of 150 \_\_\_\_\_

Increase:

1) £320 by 10% \_\_\_\_\_

2) \$320 by 15% \_\_\_\_\_

3) 320m by 6% \_\_\_\_\_

4) 32m by 91% \_\_\_\_\_

Decrease:

1) £320 by 30% \_\_\_\_\_

2) \$320 by 15% \_\_\_\_\_

3) 320m by 65% \_\_\_\_\_

4) 32m by 70% \_\_\_\_\_