

Name	Block D	Sheet 1	Class	Score
				/44

Section A

Division

1) $12 \div 3 =$ _____

2) $22 \div 2 =$ _____

3) $30 \div 5 =$ _____

4) $144 \div 12 =$ _____

5) $144 \div 6 =$ _____

6) $144 \div 4 =$ _____

7) $144 \div 20 =$ _____

8) $20 \div 40 =$ _____

9) $30 \div 7 =$ _____

10) $1 \div 8 =$ _____

Section C

Ratio

Simplify:

1) 30:40 _____

2) 25:65 _____

3) 10:15:25 _____

4) 7:49:21 _____

5) 40:38 _____

Share:

1) £40 in the ratio 1:3 _____

2) £35 in the ratio 3:4 _____

3) £90 in the ratio 2:7 _____

4) \$81 in the ratio 5:4 _____

5) 56m in the ratio 1:1:2 _____

Section B

Algebra

Solve:

1) $6x = 90$ $x =$ _____

2) $3x - 6 = 24$ $x =$ _____

3) $4x + 9 = 21$ $x =$ _____

4) $5x - 16 = -6$ $x =$ _____

Factorise:

1) $9x + 27$ _____

2) $5y + 10x$ _____

3) $8ab - 4ac$ _____

4) $16x^2 - 6xy$ _____

Expand:

1) $3(x + 4)$ _____

2) $5(x - 3)$ _____

3) $4(3x - 4)$ _____

4) $5x(2x + 2)$ _____

Section D

Percentage increase/ decrease

Find:

1) 20% of 300 _____

2) 15% of 300 _____

3) 21% of 300 _____

4) 88% of 300 _____

Increase:

1) £60 by 20% _____

2) \$70 by 15% _____

3) 45m by 60% _____

4) 12cm by 300% _____

Decrease:

1) £90 by 10% _____

2) \$120 by 15% _____

3) 80m by 70% _____

4) 20cm by 11% _____