

Higher BB

Autumn Half Term 1 - Week 1:

- 1 Write 45600000 in **standard form**
- 2 **Expand** $2x(3x + 5)$
- 3 **Work out** 56×34
- 4 Round 45598 correct to **2 significant figures**
- 5 What is the **gradient** of the line $y = 6x - 2$?
- 6 Round 5.342 km to the **nearest 100 m**
- 7 Sales rise from £500 per week to £565 per week.
Calculate the **percentage increase**
- 8 If 12 pens cost £2.40, how much would 9 pens cost?
- 9 **Solve** $6x + 5 = 4x - 9$
- 10 What is the **exact** value of $\sin 30^\circ$?

- 1 Write 10980000 in **standard form**
- 2 **Expand** $x(3x^2 - 1)$
- 3 **Work out** 632×21
- 4 Round 6050440 correct to **2 significant figures**
- 5 What is the **gradient** of the line $y = 7 - 2x$?
- 6 Round 10.451 km to the **nearest 100 m**
- 7 Sales rise from £400 per week to £504 per week.
Calculate the **percentage increase**
- 8 If 5 pens cost £1.30, how much would 7 pens cost?
- 9 **Solve** $8x - 5 = 4x + 19$
- 10 What is the **exact** value of $\cos 30^\circ$?

- 1 Write 5558000000 in **standard form**
- 2 **Expand** $6x(6 - x^2)$
- 3 **Work out** 34×221
- 4 Round 0.5044 correct to **2 significant figures**
- 5 What is the **gradient** of the line $y = 10 - x$?
- 6 Round 5.564 m to the **nearest cm**
- 7 Sales fall from £300 per week to £195 per week. Calculate the **percentage decrease**
- 8 If 9 pens cost £3.69, how much would 20 pens cost?
- 9 **Solve** $2x - 7 = 8 - x$
- 10 What is the **exact** value of $\tan 45^\circ$?

- 1 Write 5121000000000 in **standard form**
- 2 **Expand** $x^2(3 - 2x^2)$
- 3 **Work out** 12.5×32
- 4 Round 0.01468 correct to **2 significant figures**
- 5 What is the **gradient** of the line $2y = 10x + 8$?
- 6 Round 10.065 m to the **nearest cm**
- 7 Sales fall from £500 per week to £425 per week. Calculate the **percentage decrease**
- 8 If 7 pens cost £3.15, how much would 15 pens cost?
- 9 **Solve** $x + 5 = 20 - 4x$
- 10 What is the **exact** value of $\cos 45^\circ$?

- 1 Write 3451000 in **standard form**
- 2 **Expand** $3x^2(2 - x^2)$
- 3 **Work out** 25.5×25
- 4 Round 10.945 correct to **2 significant figures**
- 5 What is the **gradient** of the line $4y = 20x + 8$?
- 6 Round 3.46 cm to the **nearest mm**
- 7 Sales rise from £250 per week to £280 per week. Calculate the **percentage increase**
- 8 If 6 pens cost £3.30, how much would 20 pens cost?
- 9 **Solve** $4x - 12 = 20 - 4x$
- 10 What is the **exact** value of $\cos 60^\circ$?

- 1 Write 104555000000 in **standard form**
- 2 **Expand** $x^2(3x - 1)$
- 3 **Work out** 86^2
- 4 Round 1.99545 correct to **2 significant figures**
- 5 What is the **gradient** of the line $\frac{y}{2} = x - 3$?
- 6 Round 0.895 cm to the **nearest mm**
- 7 Sales rise from £80 per week to £92 per week.
Calculate the **percentage increase**
- 8 If 15 pens cost £5.25, how much would 12 pens cost?
- 9 **Solve** $2x + 12 = 6 - 4x$
- 10 What is the **exact** value of $\sin 0^\circ$?

