HB4.1

1) Increase \$560 by 15%

2) Round 0.0362 to one significant figure

3) Factorise $x^2 + x - 12$

4) Divide £747 in the ratio 7 : 2

5) Work out 15840 ÷ 45

HB4.2

1) If $x = -3$ find the value of $2x^2 + 10$

2) By rounding each number to one significant figure, estimate $\frac{623 \times 27.4}{91.3}$

3) Find the nth term of the sequence 58, 64, 70, 76, …

4) Express 84 as a product of prime factors

5) Expand $(x + 4)(x - 2)$

HB4.3

1) Decrease £340 by 15%

2) Round 0.00546 to one significant figure

3) Factorise $x^2 - 8x + 15$

4) Divide £245 in the ratio 5 : 2

5) Work out 23446 ÷ 19

HB4.4

1) If $x = 3$ find the value of $2x^2 - 16$

2) By rounding each number to one significant figure, estimate $18.32 \div 0.231^2$

3) Find the nth term of the sequence 0, 7, 14, 21, …

4) Express 250 as a product of prime factors

5) Expand $(x - 6)(x - 3)$

HB4.5

1) Decrease £340 by 85%

2) Round 382 to one significant figure

3) Factorise $x^2 - 36$

4) Divide £245 in the ratio 3 : 2

5) Work out 90741 ÷ 21

HB4.6

1) If $x = 6$ find the value of $0.5x^2$

2) By rounding each number to one significant figure, estimate $\frac{427}{2.138 \times 3.614}$

3) Find the nth term of the sequence 3, 9, 15, 21, …

4) Express 60 as a product of prime factors

5) Expand $(x + 8)(x - 2)$