HB5.1

1) A price is increased from £400 to £430.
Calculate the percentage increase.

2) Simplify $\sqrt{6} \times \sqrt{15}$

3) Expand and simplify $(x - 4)(x - 6)$

4) Work out $\frac{4}{7} \div \frac{2}{5}$

5) Make x the subject of $y = ax^2 + b$

HB5.2

1) Solve $5x - 6 > x + 14$

2) Work out $8 - 2 \times 3 + 1$

3) Simplify $(4xy^3)^3$

4) Work out 83×27

5) Express 0.0304 in standard form

HB5.3

1) A price is decreased from £250 to £215.
Calculate the percentage decrease.

2) Simplify $\sqrt{7} \times \sqrt{14}$

3) Expand and simplify $(x + 3)^2$

4) Work out $\frac{4}{7} \times \frac{2}{5}$

5) Make x the subject of $y = (ax)^2 + b$

HB5.4

1) Solve $2x + 7 \geq 4x - 5$

2) Work out $5 - 4 + 3 \times 2 \div 1$

3) Simplify $(5x^2y^3)^2$

4) Work out 81×27

5) Express 60700 in standard form

HB5.5

1) A price is increased from £120 to £138.
Calculate the percentage increase.

2) Simplify $\sqrt{2} \times \sqrt{40}$

3) Expand and simplify $(x - 5)^2$

4) Work out $\frac{5}{6} \div \frac{1}{3}$

5) Make x the subject of $y = \sqrt{ax + b}$

HB5.6

1) Solve $5x + 8 \leq 2 + 3x$

2) Work out $1 + 2 - 3 \times 4$

3) Simplify $3a^3 \times 2b^2 \times 2a^4 \div b$

4) Work out 24×366

5) Express 0.000401 in standard form