81_1

1) Work out £44.62 + £27.62

2) Evaluate 2^5

3) Solve $5x - 12 = 18$

4) Round 5640 to one significant figure

5) Work out $3 - 10$

81.2

1) Find the nth term: 6, 10, 14, 18, …

2) Simplify the ratio 12 : 20

3) Work out 6 × £42.32

4) Calculate the mean of 12, 5, 16, 13, 9

5) Complete the equivalent fraction $\frac{4}{5} = \frac{12}{?}$

82.1

1) Estimate 412 x 28

2) Work out $\frac{3}{7} \times \frac{4}{5}$

3) Work out £289.80 ÷ 6

4) Expand $3x(2x - 5)$

5) Express 280 as a product of prime factors

82.2

1) Find the highest common factor of 24 and 42

2) Work out 48 ÷ -4

3) Complete the ratio 6 : 30 = 1 : ?

4) Solve the equation $5x + 3 = 3x + 12$

5) Express 34% as a fraction in its lowest form

83.1

1) Factorise $14x - 21$

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

3) Work out $74.8 - 6.23$

4) Work out $\frac{2}{3} + \frac{1}{4}$

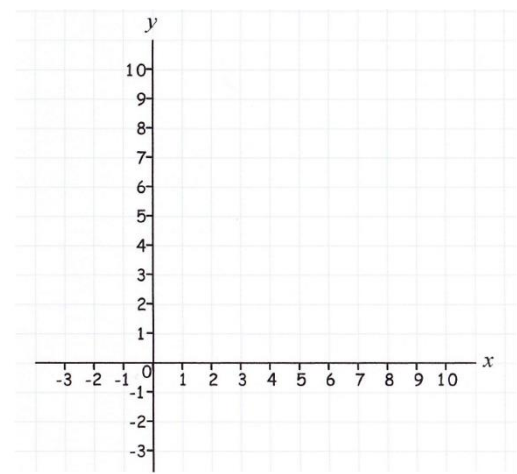5) Find the nth term: 21, 23, 25, 27, …

83.2

1) Work out $12 \div 0.3$

2) Solve the equation $2(x - 3) = 3$

3) Divide £40 in the ratio 2 : 3

4) Express $\dfrac{13}{25}$ as a percentage

5) Find the gradient of the line $y = 2x - 3$

84.1

1) Find 35% of £140

2) Factorise $20 - 16x$

3) Solve $5(3x - 4) = 130$

4) Express 90 as a product of primes

5) Calculate the mean of 11, 6, 9, 14, 55
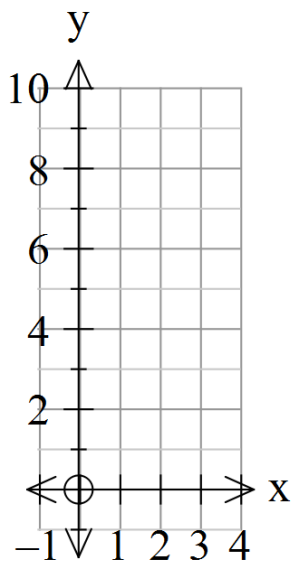
84.2

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

2) Work out $24 \div 0.3$

3) Make x the subject of $y = ax - b$

4) Express 8% as a fraction in its lowest form

5) Where does the line $y = 2x + 3$ cross the y-axis?

85.1

1) Work out $10 - 1.6 \times 0.7$

2) Complete the ratio $3 : ? = 1 : 9$

3) Solve $4x - 6 = 7 + 2x$

4) Does the point (7 , 6) lie on the line $y = 2x - 5$

5) Find the nth term of the sequence 23, 19, 15, 11, …

85.2

1) Find the gradient and y-intercept of the line

$$2y = 6x + 5$$

2) Express 21 out of 40 as a percentage

3) Work out $2\frac{2}{3} - 1\frac{3}{4}$

4) Round 3447 to one significant figure

5) Find 3% of £27

86.1

1) Work out $2\frac{3}{5} \div 2\frac{1}{2}$

2) Simplify $18x^4 \div 3x$

3) Find the gradient and y-intercept of the line $y - 2x = 3$

4) Solve $\frac{2x+2}{3} = 4$

5) Factorise fully $14x - 42x^2$

86.2

1) What is the 30th term of the following sequence

7, 10, 13, 16, …

2) Round 210.067 correct to 1 decimal place

3) Work out $4922 \div 23$

4) Decrease £230 by 15%

5) By rounding each number to one significant figure, estimate

$$\frac{7.93 \times 6.4}{3.82}$$