

- 9 Calculate.

$$\frac{16.379 - 0.879}{4.2} \times 1.241$$

Give your answer correct to 2 significant figures.

B1 for 4.57 or 4.58 or 4.579 to 4.580

If 0 scored, SC1 for their calculation rounded to 2 sf if more than 2sf seen

SC – Special Case

4.6

[2]

- 10 Share 518 in the ratio 2 : 5.

M1 for $518 \div (2 + 5)$

148

170

[2]

- 11 Write 15060

- (a) in words,

Fifteen thousand [and] sixty

[1]

- (b) in standard form.

$1.506[0] \times 10 \text{ power } 4$

[1]

- 12 Simplify $5c - d - 3d - 2c$.

B1 for $3c + kd$ or $kc - 4d$

$3c - 4d$

[2]

- 23 Solve the simultaneous equations.
You must show all your working.

$$5x + 4y = 10$$

$$7x - 6y = 43$$

Correctly equating one set of coefficients

Correct method to eliminate one variable

If 0 scored, SC1 for 2 values satisfying one of the original equations or for 2 correct values

SC – Special Case

$$x = \frac{4}{1}$$

$$y = -2.5 \quad [4]$$

given: $5x + 4y = 10$ eqn-1

$7x - 6y = 43$ eqn-2

this can be solve by eliminating "x" both equation: eqn-1 (6) + eqn-2 (4)

$$30x + 24y = 60$$

$$28x - 24y = 172$$

$$58x = 232$$

— — —

$$58 \ 58$$

$x = 4$ then substitute to eqn-2

$$7(4) - 6y = 43$$

$$28 - 6y = 43$$

$$28 - 43 = 6y$$

$$-15 = 6y$$

$$y = 5/2$$