

Question	Scheme	Mark	Notes
17	$\text{New } R = \frac{x \times 1.05}{y \times 0.75} \quad \text{or} \quad \frac{1.05}{0.75} \quad (\text{oe})$ $= \frac{7}{5} R \text{ or } 1.4 \text{ or } 140 \quad (\text{oe})$ $\therefore \text{increase} = \frac{\left(\frac{7}{5} - 1\right) R}{R} \times 100 \quad (\text{oe})$ <p>3<sup>rd</sup> M mark for correct method to convert to required %  e.g. <math>140 - 100, (1.4 - 1.0) \times 100</math>, etc.  40%</p>	4	M1 A1 M1 (DEP) A1
18	$w(5y - 2x) = 2(x + 3y) + 2(5y - 2x)$ <p style="text-align: right;">(removing denominators correctly)</p> $5yw - 2xw = 2x + 6y + 10y - 4x \quad (\text{expanding})$ <p>(OR <math>w(5y - 2x) = 2(8y - x)</math>  (removing denominators)  <math>5yw - 2xw = 16y - 2x \quad (\text{expanding})</math>  )</p> $5yw - 16y = -2x + 2xw \quad (\text{collecting terms in } y)$ $y = \frac{2x(w-1)}{(5w-16)}, \quad \frac{2xw-2x}{5w-16} \quad (\text{oe})$	4	M1 M1 (M1) (M1) M1 A1
19 (a)	$\frac{5 \times 7 \times 9 + 2 \times 6 \times 9 - 4 \times 6 \times 7}{6 \times 7 \times 9} \quad (\text{oe, no errors})$ $\frac{255}{378}, \quad \frac{85}{126}$ <p><b>NB:</b> No working seen scores M0 A0</p>	2	M1 A1
(b)	$0.6746 \rightarrow 0.675$ <b>NB:</b> ft on 4 figure accuracy of their (a) giving their “3 sf answer”	1	B1 ft
(c)	$6.75 \times 10^{-1}$ (or better)	1	B1 ft