

a)
Rearrange this formula to make y the subject.

$$\frac{5y + 2}{y} = \frac{3t - 7}{2}$$

Cancel out the denominator on the left	$y \times \frac{5y + 2}{y} = \frac{3t - 7}{2} \times y$ $5y + 2 = \frac{3ty - 7y}{2}$
Cancel out the denominator on the right	$2 \times (5y + 2) = \frac{3ty - 7y}{2} \times 2$ $10y + 4 = 3ty - 7y$
Collect like terms on one side	$10y + 4 - 10y = 3ty - 7y - 10y$ $4 = 3ty - 17y$
Factorise to isolate y	$4 = y(3t - 17)$
Make y the subject	$\frac{4}{3t - 17} = y$

b)
Rearrange this formula to make y the subject.

$$\frac{2y + 4}{y} = \frac{3t + 5}{5}$$

Cancel out the denominator on the left	$y \times \frac{2y + 4}{y} = \frac{3t + 5}{5} \times y$ $2y + 4 = \frac{3ty + 5y}{5}$
Cancel out the denominator on the right	$5 \times (2y + 4) = \frac{3ty + 5y}{5} \times 5$ $10y + 20 = 3ty + 5y$
Collect like terms on one side	$10y + 20 - 10y = 3ty + 5y - 10y$ $20 = 3ty - 5y$
Factorise to isolate y	
Make y the subject	

c)
Rearrange this formula to make x the subject.

$$\frac{5 - 3x}{x} = \frac{3m - 2}{4}$$

Cancel out the denominator on the left	$x \times \frac{5 - 3x}{x} = \frac{3m - 2}{4} \times x$ $5 - 3x = \frac{3mx - 2x}{4}$
Cancel out the denominator on the right	
Collect like terms on one side	
Factorise to isolate x	
Make x the subject	

d)
Rearrange this formula to make x the subject.

$$\frac{5a + 3}{4} = \frac{12 - 5x}{x}$$