Changing the subject of the formula

1. $Y = \frac{3(2v - w)}{5}$ Change the subject of the formula to *v*. 3 KU

2. $P = \frac{1}{3}(m - s)$ Change the subject of the formula to m 2 KU

3. $L = 8 + \frac{6}{Y}$ Change the subject of the formula to Y. 3 KU

4. Change the subject of the formula to k. $d = \frac{k - m}{t}$ 2 KU

5. $Q = p^2 + 3T$ Change the subject of the formula to *T*. 2 KU

6. $M = R^2t - 3$ Change the subject of the formula to *R*. 3 KU

7. Change the subject of the formula to *b*. $A = \sqrt{4b^2 - c}$ 3 KU

8. a) Change the subject of the formula $Q = 2\sqrt{s} + t$, to s 3 KU

   b) Find the value of s when $Q = 3.5$ and $t = 2.2$ 2 KU

9. The frequency, *F* hertz of the sound you hear as you drive past a factory siren at a speed of *v* metres per second is given by the formula

$$F = f\left(1 - \frac{v}{s}\right)$$

where f is the true frequency of the sound emitted by the siren and s is the speed of sound. Change the subject of the above formula to *v*. 3 KU