

National 5

Short Task 33

1. A function has equation $f(x) = 3x - 8$. If $f(t) = 19$, find the value of t .
2. Find the equation of the straight line joining P(-2,7) and Q(4,2).
3. Calculate the mean and standard deviation of these numbers: 12, 17, 6, 11, 14.
4. Factorise and solve $3x^2 - 13x - 10 = 0$.
5. Write as a single fraction in its simplest form.

$$\frac{(p+2)}{5} - \frac{(2p-1)}{7}$$

6. House prices are expected to increase at a rate of 6% per year for each of the next 4 years.
If a house is valued at £109 500 today, what will its expected value be in 4 years time?
Round your answer correct to 3 significant figures.