

Answers

Essential Skills 29	
1	£474.48 interest
2	1171 people
3	85 bacteria
4	£618.12
5	668.4ml
6	925 pupils
7	£260.73
8	83.7 mg/litre
9	£10173.21
10	£66389.67
AQ	3 years (Motherwell 37622, Airdrie 34681)

Essential Skills 30	
1	$x = 0, x = -8$
2	$x = 0, x = \frac{1}{2}$
3	$x = -5, x = 5$
4	$x = -\frac{1}{2}, x = \frac{1}{2}$
5	$x = -3, x = -1$
6	$x = \frac{4}{3}, x = -1$
7	$x = \frac{2}{5}, x = -2$
8	$x = -\frac{1}{3}, x = 3$
9	$x = \frac{1}{5}, x = \frac{3}{2}$
10	$x = -\frac{4}{3}, x = \frac{5}{2}$
AQ	(1) $x = -\frac{5}{2}, x = \frac{3}{2}$ (2) (a) $l = 12 - 2x, b = 9 - 2x$, proof (b) $x = \frac{3}{2}$ (3) (a) 12m (b) 32m