

5	(a)	$180 \div 3.5 \times 11.2 = 576$ or $180 \div 3.5 = 51.4[\dots]$ and $576 \div 11.2 = 51.4[\dots]$ or $576 \div 180 = 3.2$ and $11.2 \div 3.5 = 3.2$	3	M2 for $180 \div 3.5 \times 11.2$ or $180 \div 3.5$ and $576 \div 11.2$ or $576 \div 180$ and $11.2 \div 3.5$ or M1 for $180 \div 3.5$ soi $51.4[\dots]$ or $576 \div 11.2$ soi $51.4[\dots]$ or $576 \div 180$ soi 3.2 or $11.2 \div 3.5$ soi 3.2	For M marks allow figs used eg M2 for $18 \div 350 \times 112$ If in two stages: For full marks, condone premature rounding if accurate and answer is stated as 576. E.g. 3 marks for $180 \div 3.5 = 51.4$ and $51.4 \times 11.2 [= 575.68 \text{ or } 575.7] = \mathbf{576 \text{ (required)}}$ eg M2 for $180 \div 3.5 = 51.5$ and $51.5 \times 11.2 = 576$ Accept equivalent methods eg divisions inverted or correct use of lengths in other units.
	(b)	No oe and correct explanation	2	B1 for $180 \div k \times 11.2$ where $k > 3.5$ leading to answer < 576 or $[180 \div 3.5 =] 51.4\dots$ and $180 \div k, k > 3.5$ leading to answer $< 51.4(\dots)$ or Each cm on the map will be worth fewer km in real life oe	For full marks, clear conclusion and an explanation earning B1 is needed $[180 \div 3.5 =]$ may be referred to in (a)
	(c)	7500 cao	2	M1 for figs 18 $\div$ figs 24 soi figs 75	If units included in answer max M1