10	eg $51^2 = (DE)^2 + 24^2$ oe **or** $2601 = (DE)^2 + 576$ oe **or** $(DE^2 =) 51^2 - 24^2$ (= 2025) oe **or** $(DE^2 =) 2601 - 576$ (= 2025) oe **or** $\cos(DFE) = \frac{24}{51}$ **or** $\sin(DEF) = \frac{24}{51}$		5	M1 for applying Pythagoras theorem correctly
	$(DE =)\sqrt{51^2 - 24^2}$ (= $\sqrt{2025}$ = 45) **or** $(DE =)\sqrt{2601 - 576}$ (= $\sqrt{2025}$ = 45) **or** $(DFE =)\cos^{-1}\left(\frac{24}{51}\right)(= 61.9...)$ **or** $(DEF =)\sin^{-1}\left(\frac{24}{51}\right)(= 28.0...)$			M1 for square rooting
	$\frac{\textit{their } DE}{7.5}(= 6)$ oe **or** $\frac{7.5}{\textit{their } DE}\left(= \frac{1}{6}\right)$ **or** $\frac{x}{24} = \frac{7.5}{\textit{their } DE}$ oe **or** tan"*their* 61.9..." $= \frac{7.5}{(x)}$ **or** tan"*their* 28.0..." $= \frac{(x)}{7.5}$ **or** $\frac{(x)}{\sin(\textit{their } 28.0)} = \frac{7.5}{\sin(\textit{their } 61.9)}$ NB Their *ED* or their 61.9 or their 28.0 must be clearly identified Their 61.9.. or their 28.0.. cannot be used as lengths of the triangle Their 45 cannot be used as an angle of the triangle			M1 for a correct method to find the scale factor Allow correct use of sine rule/cosine rule/Pythagoras theorem Allow 0.17 or better for $\frac{1}{6}$ **Special case** Allow $(DE =)\sqrt{51^2 + 24^2}$ $(= \sqrt{3177} = 3\sqrt{353} = 56.3...)$ for "45" for this mark
	24 ÷ "6" oe **or** $24 \times "\frac{1}{6}"$ **or** 24 × "1.67" **or** $(x =)\frac{7.5}{\textit{their } ED} \times 24$ **or** $(x =)\frac{7.5}{\tan"\textit{their } 61.9..."}$ oe **or** $(x =) 7.5 \times \tan"\textit{their } 28.0..."$ oe **or** $(x =)\frac{7.5}{\sin(\textit{their } 61.9)} \times \sin(\textit{their } 28.0)$ oe **or** $51 \times "\frac{1}{6}"(= 8.5)$ **and** $(x =)\sqrt{8.5^2 - 7.5^2}\left(= \sqrt{16}\right)$			M1 dep on previous M1 for a correct method to find *x* or for finding *BC* **and** using Pythagoras theorem to find *x* Allow $24 \times "\frac{7.5}{56(.3...)}"$ **or** $24 \div "\frac{56(.3...)}{7.5}"$ for scale factor for this mark
	Working required	4		A1 dep on M2 The value of 4 must come from correct figures
				Total 5 marks