

ES10 N5 Applications of Maths (Geometry & Measure)

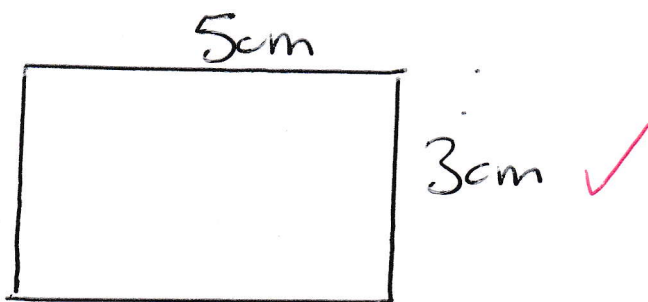
Scale Drawings

Worked Solutions Courtesy of Mr R. Milton

①  $1\text{cm} = 4\text{m}$

$$20\text{m} = \frac{20}{4} = 5\text{cm}$$

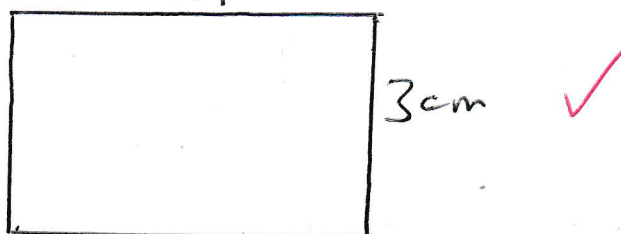
$$12\text{m} = \frac{12}{4} = 3\text{cm}$$



②  $1\text{cm} = 6\text{m}$

$$30\text{m} = \frac{30}{6} = 5\text{cm}$$

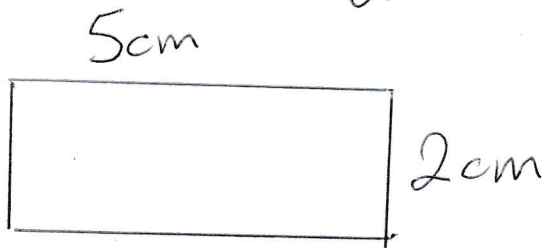
$$18\text{m} = \frac{18}{6} = 3\text{cm}$$



$$\textcircled{3} \quad 1 \text{ cm} = 2.5$$

$$17.5 \text{ cm} = \frac{17.5}{2.5} = \underline{7 \text{ cm}}$$

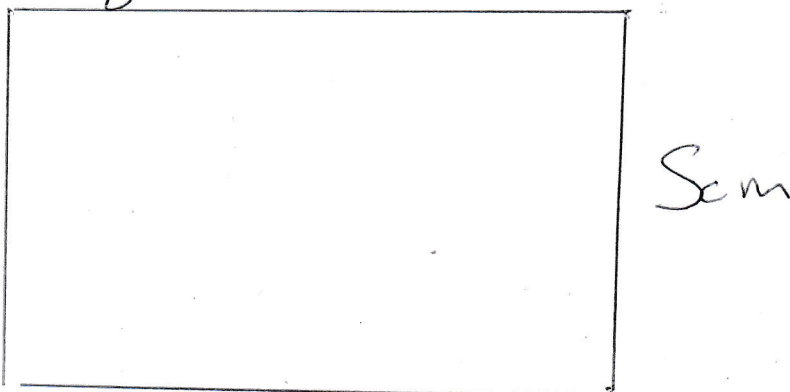
$$5 \text{ cm} = \frac{5}{2.5} = \underline{2 \text{ cm}}$$



$$\textcircled{4} \quad 1 \text{ cm} = 25 \text{ cm}$$

$$200 \text{ cm} = \frac{200}{25} = 8 \text{ cm}$$

$$125 \text{ cm} = \frac{125}{25} = 5 \text{ cm}$$



$$\textcircled{5} \quad 1\text{cm} = 4\text{cm}$$

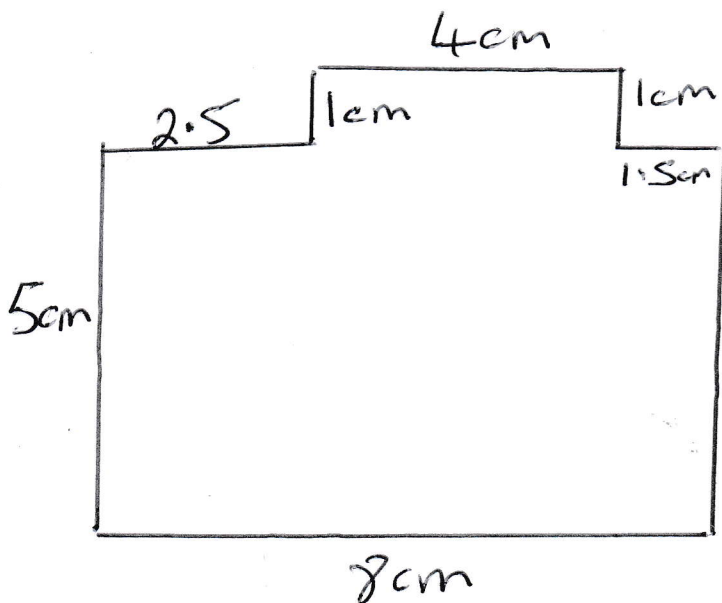
$$16\text{cm} = \frac{16}{4} = 4\text{cm}$$

$$4\text{cm} = \frac{4}{4} = 1\text{cm}$$

$$6\text{cm} = \frac{6}{4} = 1.5\text{cm}$$

$$20\text{cm} = \frac{20}{4} = 5\text{cm}$$

$$32\text{cm} = \frac{32}{4} = 8\text{cm}$$



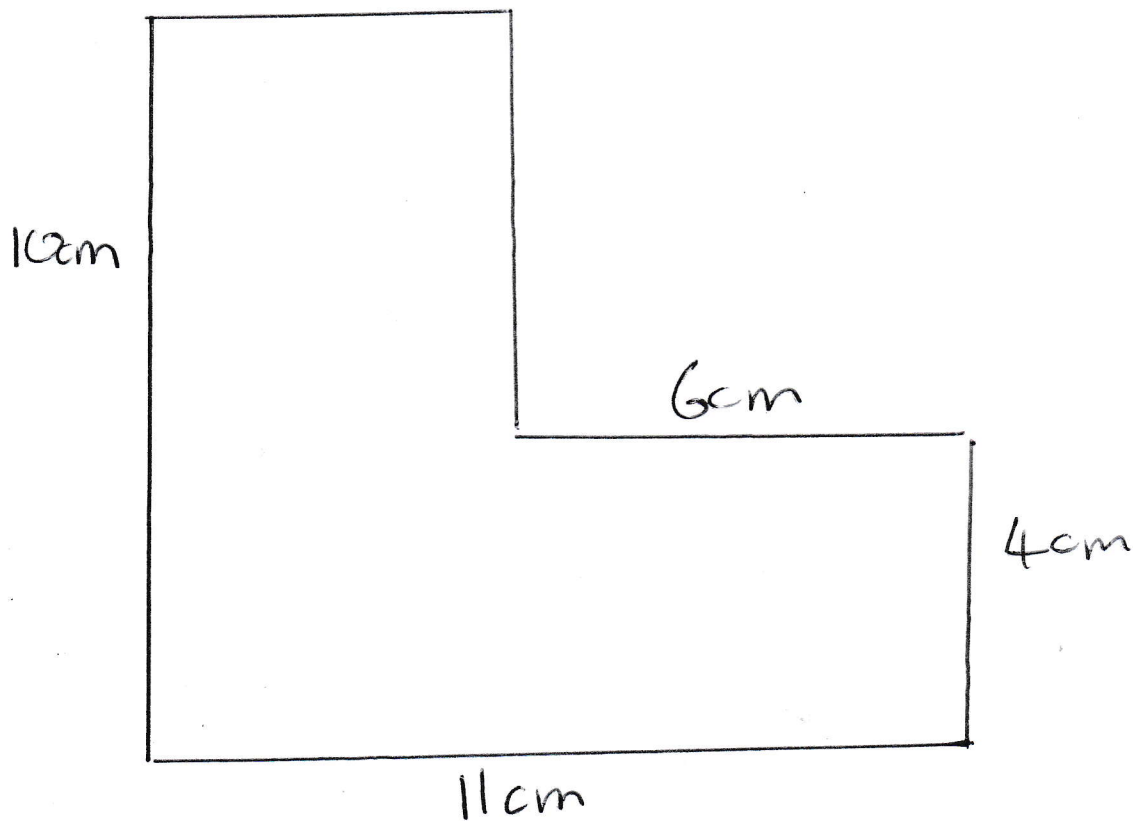
⑥  $1\text{cm} = 3\text{m}$

$$30\text{m} = \frac{30}{3} = 10\text{cm}$$

$$33\text{m} = \frac{33}{3} = 11\text{cm}$$

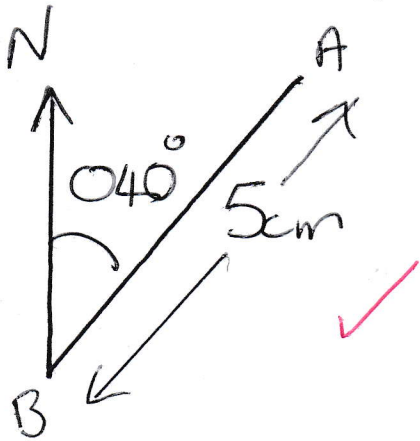
$$18\text{m} = \frac{18}{3} = 6\text{cm}$$

$$12\text{m} = \frac{12}{3} = 4\text{cm}$$



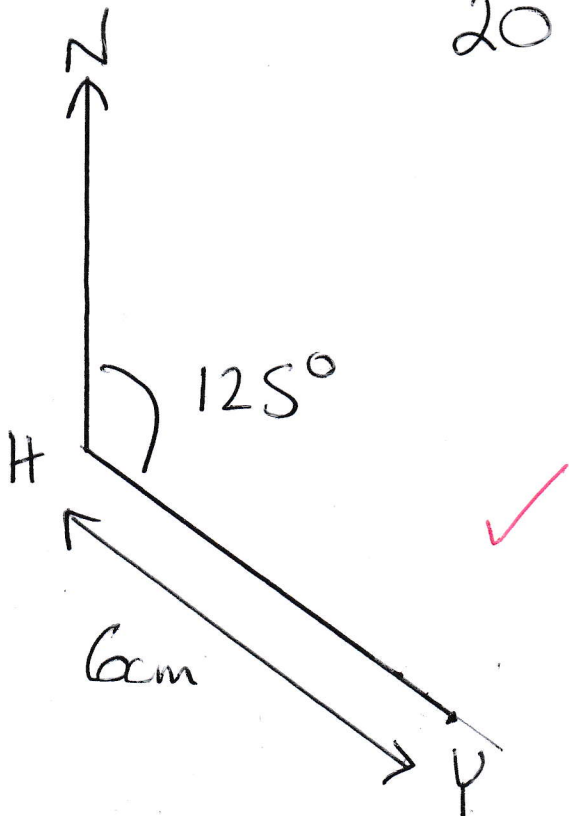
⑦  $1\text{cm} = 10\text{km}$

$$50\text{ km} = \frac{50}{10} = 5\text{cm}$$



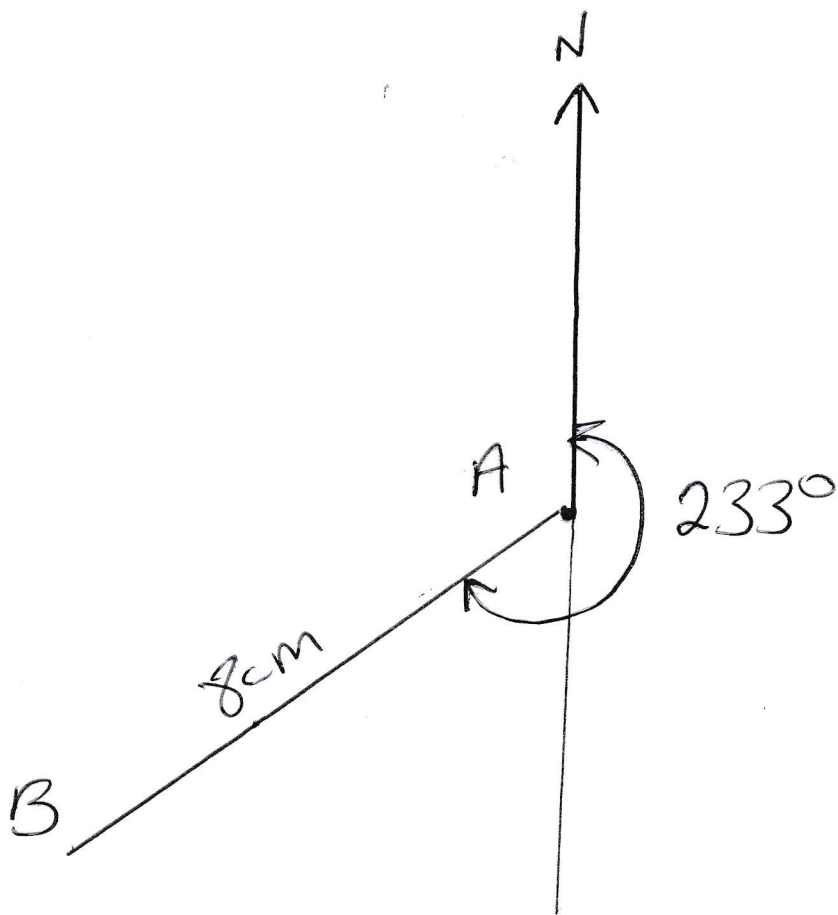
⑧  $1\text{cm} = 20\text{km}$

$$120\text{ km} = \frac{120}{20} = 6\text{cm}$$



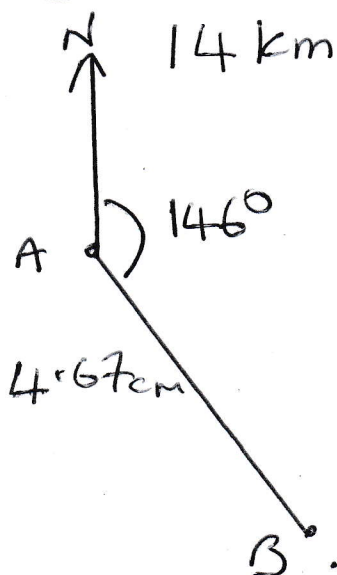
⑨  $1\text{cm} = 40\text{km}$

$$320\text{km} = \frac{320}{40} = 8\text{cm}$$



⑩  $1\text{cm} = 3\text{km}$

$$14\text{km} = \frac{14}{3} = 4.67\text{cm}$$

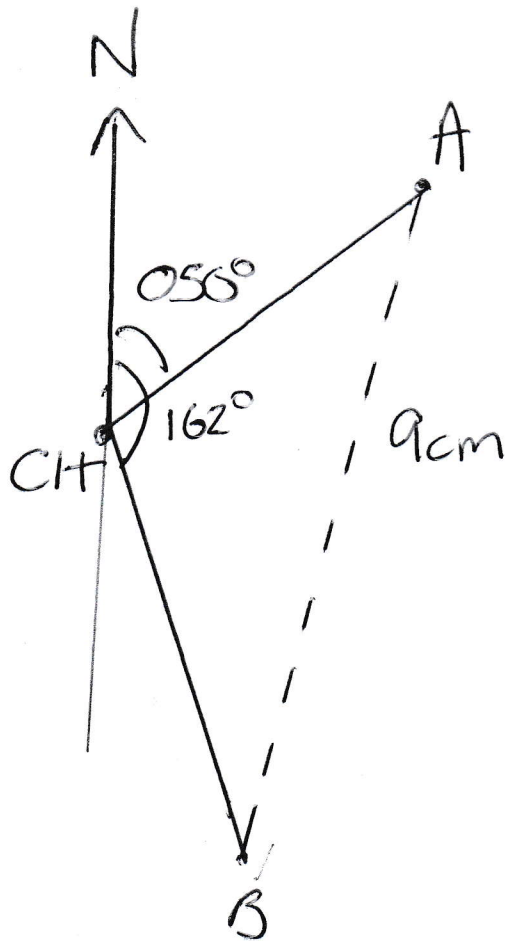


AQ

$$1 \text{ cm} = 10 \text{ km}$$

$$55 \text{ km} = \frac{55}{10} = 5.5 \text{ cm}$$

$$60 \text{ km} = \frac{60}{10} = 6 \text{ cm}$$



$$\text{DISTANCE} \\ A \rightarrow B = 9 \text{ cm}$$

$$= 9 \times 10 = 90 \text{ km}$$

SHIPS ARE 90 km APART

