

12.5 Scale Drawings

pg. 335-337 # 2, 8, 10, 12, 18, 22, 30

2. The scale is bigger because
2cm is the scale & 1mm is the actual
so, 2cm:1mm, would make it
so the scale is bigger

8. $\frac{1\text{cm}}{50\text{mi}} = \frac{2\text{cm}}{x} = \frac{2\text{cm}}{100\text{mi}}$ 100mi distance

10. $\frac{1\text{cm}}{50\text{mi}} = \frac{4\text{cm}}{x} = \frac{4\text{cm}}{200\text{mi}}$ 200mi distance

12. $\frac{1}{12} = \frac{6.25}{x}$

	$\times 6.25$	
	$\frac{12}{12}$	
	$\times 12.50$	
	$\times 62.50$	
	$\underline{75.00}$	

75 in. is the actual

13. 15ft - multiply 12 (to get in) than divide
12 (to get scale)

14. $\times 32$
 $\frac{12}{12}$
 $\times 64$
 $\frac{320}{384}$ 3.84 meters

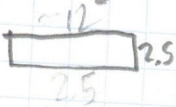
15. $\begin{array}{r} 5.4 \\ + 1.2 \\ \hline 6.6 \\ + 10.8 \\ \hline 17.4 \end{array}$ $\begin{array}{r} 18.26 \\ - 3.6 \\ \hline 14.66 \\ - 2.4 \\ \hline 12.26 \\ - 6.8 \\ \hline 5.46 \\ - 2.0 \\ \hline 3.46 \end{array}$ 18.27yd is the actual

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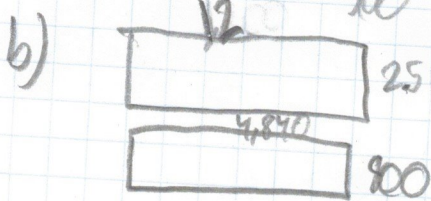
16.
$$\begin{array}{r} 17.5 \\ 12 \overline{) 210.0} \\ \underline{-120} \\ 90 \\ \underline{-84} \\ 60 \\ \underline{-60} \\ 0 \end{array}$$
 17.5 mm

17. They were suppose to write $\frac{1 \text{ cm}}{20 \text{ m}} = \frac{5 \text{ cm}}{2 \text{ m}}$

18. $\frac{4 \text{ cm}}{10 \text{ m}} = \frac{1}{30 \text{ m}}$

22.  $24 + 5 = 29$ perimeter
30 area

$$\begin{array}{r} 12 \\ \times 25 \\ \hline 60 \\ + 240 \\ \hline 300 \end{array}$$



$$\frac{1}{320} \mid \frac{12}{x}$$

$$\begin{array}{r} \times 320 \\ \times 12 \\ \hline 4200 \\ + 1600 \\ \hline 4800 \end{array}$$

$$\begin{array}{r} \times 320 \\ \times 25 \\ \hline 1600 \\ + 6400 \\ \hline 8000 \end{array}$$

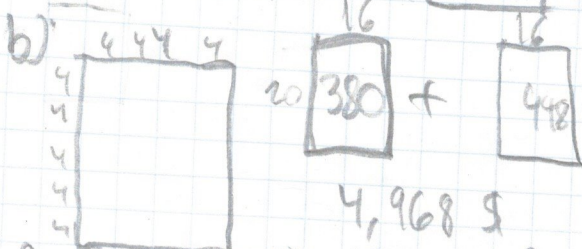
$1,600 + 9,680 = 11,280$ perimeter

$$\begin{array}{r} 64,340 \\ \times 1,800 \\ \hline 38,720 \end{array}$$

area

30. a) $\frac{1 \text{ inch}}{16 \text{ ft}} = \frac{.25 \text{ in}}{4 \text{ ft}}$  SA 96AF price: 4809

$$\begin{array}{r} \times 96 \\ \times 5 \\ \hline 4800 \end{array}$$

b)  $380 + 480 = 828 \text{ ft}^2$
 $4,968 \text{ \$}$ 276 yd^2

$$\begin{array}{r} \times 28 \\ \times 12 \\ \hline 1168 \\ + 280 \\ \hline 448 \end{array}$$

$$\begin{array}{r} \times 20 \\ \times 16 \\ \hline 180 \\ + 200 \\ \hline 380 \end{array}$$

c) ceramic $\frac{1 \text{ ft}^2}{59}$ carpet $\frac{1 \text{ yd}^2}{189} = \frac{1 \text{ ft}^2}{69}$

$$\begin{array}{r} \times 27 \\ \times 17 \\ \hline 2208 \\ + 2760 \\ \hline 4968 \end{array}$$

The carpet has a greater cost because it's (19) more