

APRIL 15, 2016

**UNIT 7: SIMILARITY AND
TRANSFORMATIONS**

**7.1 / 7.2: SCALE DIAGRAMS:
ENLARGEMENTS
AND REDUCTIONS**

M. MALTBY INGERSOLL
MATH 9



WHAT'S THE POINT OF TODAY'S LESSON?

We will continue working on the Math 9 Specific Curriculum Outcome (SCO) "Shape and Space 4" OR "SS4" which states:

"Draw and interpret scale diagrams of 2-D shapes."

HOMEWORK QUESTIONS???
(pages 323/4, #4 TO #8, #12 and #15)

5b 7

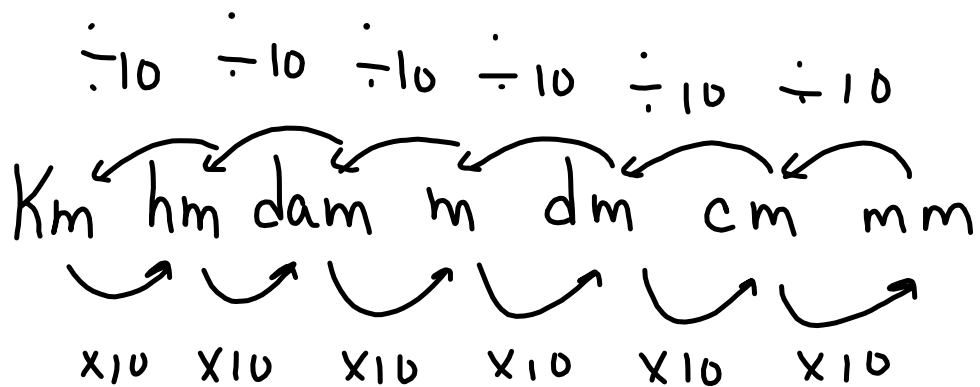
$$5. b) \quad \begin{array}{r} 41 \\ \hline 82 \text{ mm} \end{array} \times \frac{5}{2} = 205 \text{ mm}$$

} $82 \times \frac{5}{2}$
= 82×2.5
= 205 mm

$$d) \quad 45 \times 3.8 = 171 \text{ mm}$$

HOMEWORK QUESTIONS???
(pages 323/4, #4 TO #8, #12 and #15)

$$\begin{aligned} 7. \quad SF &= \frac{\text{scale}}{\text{original}} \\ &= \frac{48}{30} \\ &= \frac{8}{5} \\ &= 1\frac{3}{5} \\ &= 1.6 \end{aligned}$$



ex: $11\,200 \text{ mm} \div 1000 \text{ mm/m}$
 $= 11.2 \text{ m}$

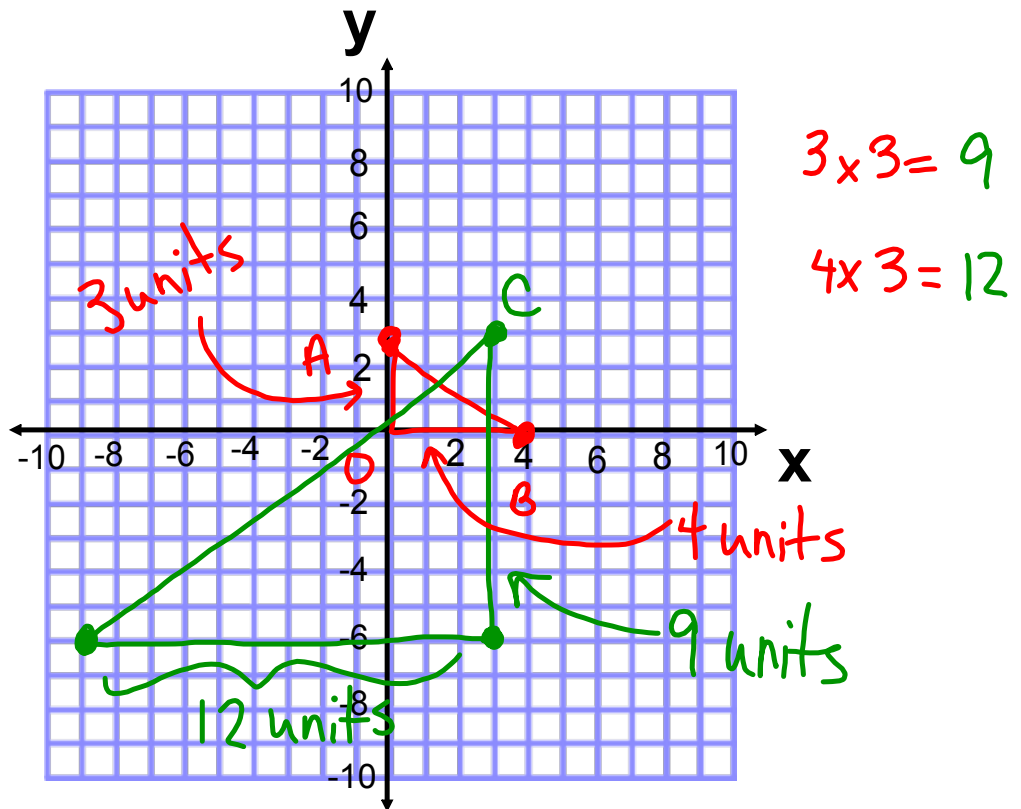
ex: $3 \text{ m} \times 100 \text{ cm/m}$
 $= 300 \text{ cm}$

HOMEWORK QUESTIONS???
(pages 323/4, #4 TO #8, #12 and #15)

$$\begin{aligned} 12. \quad a) \quad SF &= \frac{S}{O} \\ &= \frac{16m}{50mm} \\ &= \frac{16000mm}{50mm} \\ &= 320 \end{aligned}$$

$$\begin{aligned} b) \quad &35mm \times 320 \\ &= 11\,200\,mm \\ &= 11.2\,m \end{aligned}$$

HOMEWORK QUESTIONS???
(pages 323/4, #4 TO #8, #12 and #15)



CONCEPT REINFORCEMENT:

MMS9:

PAGE 329: #4,5,6,8 & 9

PAGE 330: #10 & 11

PAGE 331: #20

Answers: pgs. 522/3