Percent Proportion

$$\frac{is}{of} = \frac{\%}{100}$$

$$\frac{is \ 39}{of \ n} = \frac{5}{100}$$

$$4 \, pt \approx \underline{\quad} \, l.$$

p.276 Table

$$1 \, pt \approx 0.473 \, l$$

1.8⑨2 ↓

$$\frac{4 \, \cancel{pt}}{1} \times \frac{0.473 \, \textcircled{l}}{1 \, \cancel{pt}} = \underline{\quad} \, l$$

1.89

10.)

$$\frac{240,000 \text{ acres}}{3 \text{ days}} \times \frac{1 \text{ day}}{24 \text{ hrs}} = \frac{240,000}{72} = 3333\frac{1}{3} \text{ hrs}$$

$$\frac{24 \text{ hrs}}{1 \text{ day}} \qquad \frac{1 \text{ day}}{24 \text{ hrs}}$$

7.) 4 km = _____ yd

$\boxed{\dfrac{1\,yd}{0.914\,m}} \quad \dfrac{1.914\,m}{1\,yd} \quad \dfrac{1000\,km}{1\,m} \boxed{\dfrac{1\,m}{1000\,km}}$

$$\dfrac{4\,km}{1} \times \dfrac{1000\,m}{1\,km} \times \dfrac{1\,yd}{0.914\,m} = \dfrac{4000}{0.914} = \boxed{4376\,yd}$$

$$\frac{0.5 \text{ in}}{4 \text{ ft.}} = \frac{7.5 \text{ in}}{60 \text{ ft.}}$$

$$7\tfrac{1}{2} \text{ in} = \frac{15}{2}$$
$$7.5 \text{ in}$$

$7\tfrac{1}{2}$ in

$$\boxed{6\frac{2}{3}\,\text{in}}$$
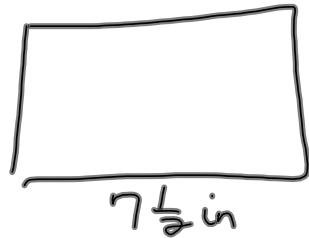
$$\frac{X}{12} = \frac{10}{18}$$

6 - 8 Dilations

   Dilate — enlarge or reduce
       by a scale factor.
      enlarge $>$ 1
      reduce $<$ 1

(x, y) multiply the scale factor (k)
$(kx)(ky)$ $y = kx$
$(x' \; y')$ X scale factor

$$J(2,4) \quad J'(1,2) \qquad k=\frac{1}{2}$$

$x\frac{1}{2} \quad x\frac{1}{2}$

$$K(2,6) \quad K'(1,3)$$

Prime = New figure

$$M(8,6) \quad M'(4,3)$$

$$N(8,2) \quad N'(4,1)$$

$R\ (-3, 6)\quad S\ (3, 12)\quad T(3, 3)$

$R'\ (-1, 2)\quad S'\ (1, 4)\quad T'(\ 1, 1)$

$$SF = \frac{1}{3}$$

$$\frac{-3}{1} \cdot \frac{1}{3} = \frac{-3}{3} = \boxed{-1}$$

$X(-3,6)$　$Y(3,0)$　$Z(3,3)$　$\boxed{SF: 3}$

$X'(-9,18)$　$Y'(9,0)$　$Z'(9,9)$

original   (3, 6)   (9, 6)

÷3×$\frac{1}{3}$

new'   (1, 2)   (3, 2)

SF: $\frac{1}{3}$ Reduction