HW review – #18, p.171

$$(14)(b)\frac{18}{14} = \frac{b+2}{b}(14)(b)$$

$$18b = 14(b+2)$$

$$18b = 14b + 28$$

$$4b = 28$$

$$b = 7$$

Ratios & Proportions

Ratio — comparison between two numbers

$\frac{5}{6}$ $\quad 5:6 \quad$ 5 to 6

Proportion - comparison between two ratios in the form of an equation

$\frac{5}{6} = \frac{17}{x}$ $\qquad$ $\frac{x}{31} = \frac{4}{7}$

Percentages

- A ratio between a number and 100

$45\% = \frac{45}{100} = 45 \div 100 = 0.45$

$79.16428\% = \frac{79.16428}{100} = 79.\ldots \div 100 = 0.7916428$

$\frac{4}{7} \quad \frac{6}{11} \quad \frac{3}{13} \quad \frac{4}{5}$

$\frac{4}{7} = \frac{x}{100}$

$400 = 7x$

$57. = x$

$\cdot 55$

55%

42% of 15 is:

$\frac{42}{100} = \frac{x}{15}$ or $42\% \cdot 15 =$

$630 = 100x$

$0.42 \cdot 15 = \underline{6.3}$

$x = 6.3$

1. Finish/turn in quiz

2. Homework:

p. 179 4-28 (even), 33, 35, 37

p. 182 7-45 (all)
p. 197 4-15 (all)
p. 217 1-96 (all)
p. 422 1-4,316 (all)

→ Angie only