*Test A*

1. 0.667   **2.** 0.001

3. reading email, doing chores, doing homework

4. number of students who walk to school

5. number who play on a sports team

6. greater than

7. $\dfrac{21}{w} = \dfrac{35}{100}$; 60   **8.** $\dfrac{70}{56} = \dfrac{p}{100}$; 125%

9. $17 = p \bullet 68$; 25%   **10.** $a = 0.16 \bullet 80$; 12.8

11. increase; 40%   **12.** decrease; 60%

13. \$94.08   **14.** 615 brushes

15. \$73.80   **16.** 35%   **17.** \$50   **18.** \$37.12

19. 2 years   **20.** \$150   **21.** \$720   **22.** 6.5%

23. \$260   **24.** \$2090   **25.** \$5.88

26. 20% increase

27. Store B; The cost at Store A is \$90.30, at Store B is \$87.75, and at Store C is \$90. So, the cost is the lowest at Store B.

28. 3 years

$$\frac{3}{4} = 75\%$$

$$\boxed{\frac{a}{w} = P}$$

$$\frac{3}{4} = 75\%$$

$$\frac{a}{w} = P \cdot w$$

$$a = P \cdot w$$

$$\frac{a}{p} = w$$
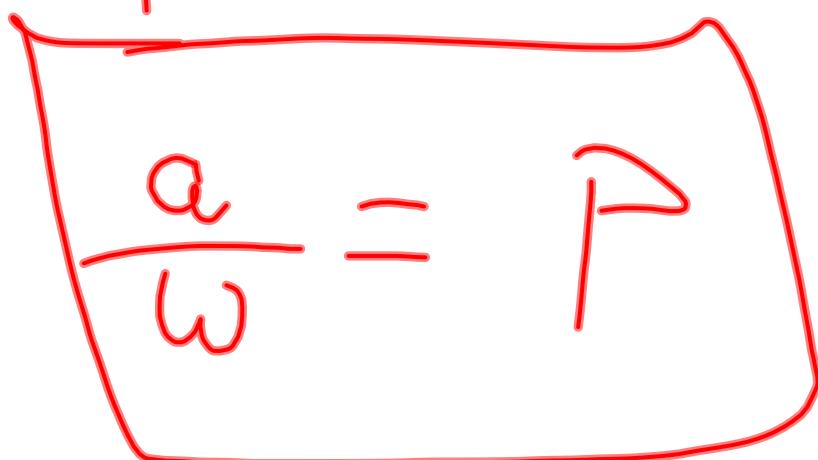
$a = \text{Part}$

$w = \text{Whole}$

$P = \text{Percent}$

$\boxed{a} = P \cdot w$

$\dfrac{a}{P} = \boxed{w}$

$\dfrac{a}{w} = \boxed{P}$

$$\text{Percent of Change} = \frac{\text{*diff. of amount}}{\text{original amount}}$$

*diff of original amount $\Rightarrow$ new amount

$$P = \frac{c}{g}$$

$$P \cdot g = c$$

$$g = \frac{c}{P}$$

#15

$$\$82 \qquad 10\% \text{ off}$$

$$82 \cdot .9 = \$73.80$$

#18

$32   16% ↑

32 · 1.16 = $37.12

\#16

$$P = \frac{c}{g}$$

$$P = \frac{43.75}{125}$$

$$P = .35$$

$$P = 35\%$$

#17 $\$32$ 36%

32 is 64% of x

$$\frac{32}{.64} = \frac{.64 x}{.64}$$

$$50 = x$$

Formula

Values

Simplify

Simplify

Solve

$I = Prt$

$I = 1250 \cdot .03 \cdot 10$

$I = 12500 \cdot .03$

$I = \$375$

$I = \$283.52$, $P = \$1700$, $t = 46$ months

$$I = Prt$$

$$283.52 = 1700 \cdot r \cdot 3\tfrac{5}{6}$$

$$283.52 = \frac{1700}{1} \cdot \frac{23}{6} \cdot r$$

$$\frac{6}{39100} \cdot \frac{283.52}{1} = \frac{39100}{6} r \frac{6}{39100}$$

$$\frac{1701.12}{39100} = r$$

$$.044 = r$$

$$4.4\% = r$$

	I = $19, P = $950, t = 4 months

$$I = Prt$$

$$19 = 950 \cdot r \cdot \frac{1}{3}$$

$$\frac{3}{950} \cdot \frac{19}{1} = \frac{950}{3} r \cdot \frac{3}{950}$$

$$\frac{57}{950} = r$$

$$.06 = r$$

$$6\%$$

	I = $135, P = $750, t = 6 years

$$I = Prt$$

$$135 = 750 \cdot r \cdot 6$$

$$\frac{135}{4500} = \frac{4500 r}{4500}$$

$$.03 = r$$

$$3\% = r$$

$I = \$60,\ P = \$250,\ r = 4\%$

$$I = Prt$$

$$60 = 250 \cdot .04 \cdot t$$

$$\frac{60}{10} = \frac{10t}{10}$$

$$6 = t$$

#19

$$I = Prt$$

$$84 = 600 \cdot .07 \cdot t$$

$$\frac{84}{42} = \frac{42t}{42}$$

$$2 = t$$

#21

$$I = Prt$$

$$39.60 = P \cdot .11 \cdot .5$$

$$\frac{39.60}{.055} = \frac{.055P}{.055}$$

$$\$720 = P$$

Pg 695 - 700

review