

## Chapter 15 Notes

### 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.  $\frac{21}{w} = \frac{35}{100}$ ; 60
8.  $\frac{70}{56} = \frac{p}{100}$ ; 125%
9.  $17 = p \cdot 68$ ; 25%
10.  $a = 0.16 \cdot 80$ ; 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

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

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

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

$$\cancel{\frac{a}{w}} = p \cdot w$$

$$a = p \cdot w$$

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

Chapter 15 Notes

$a = \text{Part}$

$w = \text{Whole}$

$P = \text{Percent}$

$$a = P \cdot w$$

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

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

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

\* diff of original amount  $\rightarrow$  new amount

$$\begin{aligned} \mathcal{P} &= \int \mathcal{L} \\ \mathcal{L} &= \mathcal{P} \\ \mathcal{L} &= \mathcal{P} \end{aligned}$$

#15

~~\$82~~

10% off

$$82 \cdot .9 = \text{\$}73.80$$

#18

\$32

16% ↑

$$32 \cdot 1.16 = \$37.12$$



#16

$$P = \frac{1}{9}$$

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

$$P = .35$$

$$P = 35\%$$

#17

\$32

36%

32 is 64% of X

$$\frac{32}{.64} = \frac{\cancel{.64} X}{\cancel{.64}}$$

$$50 = X$$

$$I = Prt$$

$$I = 200 \cdot .02 \cdot 4$$
$$I = 16$$

# 19

$$I = Prt$$

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

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

$$2 = t$$

#21

$$I = Prt$$

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

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

$$\$720 = P$$