

Name: \_\_\_\_\_ Per. \_\_\_\_\_

**Chapter 6**

**Practice Test**

**No Work = No Credit**

Write the percent as a decimal & the decimal as a percent.

DP

1.  $25.3\% \div 100 = .253$

2.  $0.7\% \rightarrow .007$

1. .253

2. .007

DP

3.  $0.034(100) = 3.4\%$

4.  $5.9(100) = 590 \Rightarrow 590\%$

3. 3.4%

4. 590%

In Exercise 5 & 6, use the table that shows the results of a class poll. SHOW WORK

Question	Yes	No
Do you walk to school?	22%	78%
Is there a pet in your home?	$\frac{3}{8}$	$\frac{5}{8}$
Do you play on a sports team?	0.64	0.36

$3 \div 8 = .375 (100) = 37.5\%$

5. Which amount is greater, kids that have a pet or kids who walk to school?

$3 \div 8 = .375$   
 $.375(100) = 37.5\%$

22%

5. have Pet

6. Which amount is greater, the kids that play sports the kids who DON'T own pets?

Sports = 64%  
 No Pet:  $5 \div 8 = .625$   
 $.625(100) = 62.5\%$

6. Play Sports

7. 52 is what percent of 13?

part = % (whole)  
 $52 = x(13)$   
 $x = 4(100)$   
 $x = 400\%$

8. What number is 16% of 70?

part whole  
 $x = .16(70)$   
 $x = 11.2$

7. 400%

8. 11.2

For 9 & 10, find the percent of change.

9. 12 books to 27 books

$\frac{27-12}{12}(100) \Rightarrow \frac{15}{12}(100)$   
 $\Rightarrow 1.25(100) = 125\%$

10. 50 cars to 35 car

$\frac{50-35}{50}(100) \Rightarrow \frac{15}{50}(100)$   
 $\Rightarrow .3(100) = 30\%$

9. 125%

10. 30%

11. Squidward thinks Sponge Bob can only make 9 Krabby Patties in 20 minutes,

but he actually makes 20. What is Squidward's percent of error? ← difference

$\frac{20-9}{20}(100) \Rightarrow \frac{11}{20}(100) \Rightarrow .55(100)$  REAL #  
 $= 55\%$

11. 55%

$$(New\ Price) = (\% \text{ PAID}) (Old\ Price)$$

$$NP = (\% \text{ Paid}) (OP)$$

**ANSWERS (Pract)**

For 12 -15, find the missing amount.

Just like #15 9 & 10!

12. OP Original Price: \$75

% Discount: ????

NP Sale Price: \$52.50

$$\frac{75 - 52.50}{75} (100) \Rightarrow \frac{22.5}{75} (100)$$

$$\Rightarrow .3 (100) = 30\%$$

14. Original price: ????

OP % Discount: 20%

NP Sale price: \$54

$$\frac{\$54}{.8} = X$$

Original Price = \$67.50

13. OP Original Price: \$48

% Discount: 25%

NP Sale Price: ????

$$X = .75 (48)$$

Sale Price = \$36

15. Wholesale/Cost to store: \$34

ADD Markup: 145%

Retail/Selling price: ????

$$100\% + 145\% = 245\%$$

$$\text{OR } 2.45$$

NP = 2.45 (34)

Retail Price = \$83.30

30%

\$36

\$67.50

\$83.30

An account earns annual simple interest. Find the missing amounts.  $I = Prt$

16. Interest earned: Principal: Interest rate: Time: New Balance:

????

\$1200

4%

5 years

????

$$I = Prt$$

$$I = 1200 (.04) (5)$$

$$I = \$240$$

Principal = \$1200

+ Interest = \$240

New Balance = \$1440

\$240

New Balance =

\$1,440

17. Interest earned: Principal: Interest rate: Time:

\$16

\$400

????

6 months

must be in years!

$$I = Prt$$

$$16 = 400 (r) (.5)$$

$$\frac{16}{200} = \frac{200r}{200}$$

$$r = .08 (100) = 8\%$$

$$\frac{6}{12} = \frac{1}{2} = .5 \text{ years}$$

8%

18. You buy a pair of Gucci slides for \$210. How much do you pay in

TOTAL if the tax rate is 8.5%? This is a % increase

$$100\% + 8.5\% = 108.5\% \rightarrow 1.085$$

$$NP = 1.085 (\$210) \quad \text{Price After Tax} = \$227.85$$

\$227.85

19. You are shopping for a Supreme bag. Which store has the best price?

SHOW YOUR WORK FOR EACH BAG!!!

Store	Original Price	Discount
A	\$140	30%
B	\$150	35%
C	\$160	40%

$$100\% - 30\% = 70\% \quad X = .7 (140) = \$98$$

$$100\% - 35\% = 65\% \quad X = .65 (150) = \$97.5$$

$$100\% - 40\% = 60\% \quad X = .6 (160) = \$96$$

Store A: \$98

Store B: \$97.50

Store C: \$96

Best: C