

CHAPTER 2 TEST REVIEW

5. $\frac{3}{4}\%$ of 387 (ESTIMATE)

$$\begin{array}{l} \downarrow \qquad \qquad \downarrow \\ 1\% \text{ OF } 400 = 4.00 \leftarrow \\ \downarrow \qquad \qquad \downarrow \\ 10\% \text{ OF } 400 = 40.0 \leftarrow \end{array}$$

D (4)

1.75% of 312 (ESTIMATE)

$$\begin{array}{l} \downarrow \qquad \qquad \downarrow \\ 2\% \text{ OF } 300 = 6.00 \leftarrow \\ \downarrow \qquad \qquad \downarrow \\ 10\% \text{ OF } 300 = 30.0 \leftarrow \\ \downarrow \qquad \qquad \downarrow \\ 1\% \text{ OF } 300 = 3.00 \leftarrow \end{array}$$

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6/7

PART = PERCENT x WHOLE
DECIMAL

6. WHAT ^{PART} NUMBER IS 74% OF 58?
 $n = 0.74 \times 58$ (G)

7. 89% OF ^{WHOLE} WHAT NUMBER IS 14?
 $14 = 0.89 \times n$ (D)

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8. SPENT \$48
\$48 WAS 15% OF HER SAVINGS

$$\begin{array}{l} \div 3 \swarrow \\ \$48 = 15\% \\ \swarrow \quad \searrow \div 3 \\ \$16 = 5\% \end{array}$$

$$\frac{\$16}{\frac{1}{5}} = 20\% \leftarrow \frac{1}{5}$$

$$\frac{\$16 \times 5}{100\%} = \frac{\$80}{100\%}$$

$$\frac{\$48}{\text{PART}} = \frac{15\%}{\text{PERCENT}} = \frac{15}{100}$$

$$\frac{48 \times 100}{15} = \frac{4800}{15} = \$320$$

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9. LUNCH COST \$14.50
TIP 20%

$$\begin{array}{ccccc} \$TIP & = & TIP & \times & LUNCH \\ \text{AMOUNT} & & \text{PERCENT} & & \text{COST} \end{array}$$

$$\$TIP = 0.20 \times 14.50$$

$$\boxed{\$2.90} = 0.20 \times 14.50$$

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10. AQUARIUM COSTS \$59.50 AFTER 15% DISCOUNT
WHAT IS THE ORIGINAL PRICE?

WHAT PERCENT DID THEY PAY?

$$\begin{array}{r} \text{FULL PRICE} = 100\% \\ - \text{DISCOUNT} = 15\% \\ \hline \text{SALE PRICE} = 85\% \end{array}$$

ORIGINAL PRICE = \$70

$$\frac{59.50}{x} = \frac{85}{100}$$

$$\frac{59.50(100)}{85} = x$$

$$\frac{5950}{85} = 70$$

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$$\text{PERCENT CHANGE} = \frac{\text{NEW AMOUNT} - \text{ORIGINAL AMOUNT}}{\text{ORIGINAL AMOUNT}}$$

11. $\overset{O}{100}$ TO $\overset{N}{150}$ $\frac{150-100}{100} = \frac{50}{100} = 50\%$ INCREASE

12. $\overset{O}{\$300}$ TO $\overset{N}{\$200}$ $\frac{200-300}{300} = -\frac{100}{300} = -\frac{1}{3} = -0.\bar{3} = 33.\bar{3}\%$ DECREASE

13. $\overset{O}{30}$ TO $\overset{N}{90}$ $\frac{90-30}{30} = \frac{60}{30} = 2 = 200\%$ INCREASE

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WHAT IS THE TOTAL COST OR SALES PRICE TO THE NEAREST CENT

14. \$20 HAIRCUT
15% TIP

$$\text{TIP} = 20 \times 0.15 = 3$$
$$\text{HAIRCUT} + \text{TIP} = \text{TOTAL}$$
$$\$20 + \$3 = \$23$$

15. \$10 LAMP
5% TAX

$$10\% \text{ OF } \$10 = \$1$$
$$5\% \text{ OF } \$10 = \$0.50$$

$$\text{LAMP TAX}$$
$$\$10 + \$0.50 = \text{TOTAL}$$
$$\$10.50$$

16. \$50 TOOL SET
10% MARKUP

$$10\% \text{ OF } \$50 = \$5$$

$$\text{TOOLS} + \text{MARKUP} = \text{TOTAL COST}$$
$$\$50 + \$5 = \$55$$

CHAPTER 2 TEST REVIEW

P = PRINCIPLE
R = RATE (DECIMAL)
T = TIME

SIMPLE INTEREST

$$I = P \times R \times T$$

17. \$1000, 5%, 2 YEARS

$$I = 1000(0.05)(2)$$

50 (2) = \$100
ANNUAL INTEREST

TOTAL INTEREST

18. \$300, 6½%, 1 YEAR

$$I = 300($$

$$\underline{4.25\%} \rightarrow \underline{0.0425}$$

$$6\% = 0.06$$

$$6.5 \rightarrow 6\frac{1}{2}\% = 0.065$$

6%
6.5%

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SIMPLE INTEREST

$$I = P \times R \times T$$

17. \$1000, 5%, 2 YEARS

$$I = 1000(0.05)(2)$$

50 (2) = \$100
ANNUAL INTEREST TOTAL INTEREST

18. \$300, 6½%, 1 YEAR

$$I = 300(0.065)(1)$$

19.5 (1) = \$19.50

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SIMPLE INTEREST

19. \$850, 4%, ^{0.5 YEARS}~~6 MONTHS~~

$$850(0.04)(0.5)$$
$$\swarrow \quad \searrow$$
$$34(0.5) = \$17$$

20. \$900, 6%, 2 YEARS

$$900(0.06)(2)$$
$$\swarrow \quad \searrow$$
$$54(2) = \$108$$

