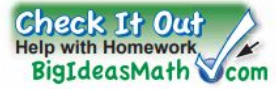**5.6   Exercises**

Vocabulary and Concept Check

1. **DIFFERENT WORDS, SAME QUESTION** Which is different? Find "both" answers.

   | What is twenty percent of 30? | What is one-fifth of 30? |

   | Twenty percent of what number is 30? | What is two-tenths of 30? |

   _____

   _____

   _____

2. **NUMBER SENSE** If 52 is 130% of a number, is the number greater or less than 52? Explain.

   _____

   _____

   _____

   _____

Practice and Problem Solving

Find the percent of the number. Explain your method.

14. 92% of 19

_____

_____

_____

16. 38% of 22

_____

_____

_____

23. ERROR ANALYSIS Describe and correct the error in finding 40% of 75.

✗ 40% of 75 = 40% × 75 = 3000

26. **CABLE** A family pays $45 each month for cable television. The cost increases 7%.

    a. How many dollars is the increase?

    b. What is the new monthly cost?

a. _____ b. _____

Find the whole. Explain your method.

35. 125% of what number is 25? _____

_____

_____

_____

37. **ERROR ANALYSIS** Describe and correct the error in finding the whole.

20% of what number is 5?

$5 \div 20\% = \dfrac{5}{20}$

$= \dfrac{1}{4}$

Copy and complete the statement using <, >, or =.

44. 20% of 30 [ ] 30% of 40

48. LENGTH How many inches is 78% of 3 feet?

_____

50. BASKETBALL To pass inspection, a new basketball should bounce back to between 68% and 75% of the starting height. A new ball is dropped from 6 feet and bounces back 4 feet 1 inch. Does the ball pass inspection? Explain.

_____

_____

_____

_____

52. SURFBOARD You have a coupon for 10% off the sale price of a surfboard. Which is the better buy? Explain your reasoning.

- 40% off the regular price
- 30% off the regular price and then 10% off the sale price

REGULAR PRICE $150

SALE 30% OFF ALL SURFBOARDS

_____

_____

_____

_____

Fair Game Review What you learned in previous grades & lessons

Multiply. *(Section 2.5)*

54. 0.6×8 **55.** 3.3×5 **56.** 0.74×9 **57.** 2.19×12

58. MULTIPLE CHOICE What is the quotient of 75 and 2.4? *(Section 2.6)*

     A 0.032   **B** 0.3125   **C** 3.2   **D** 31.25

54. _____   55. _____   56. _____   57. _____