

Get Ready!

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Finding Percent

Write each number as a percent.

1. $\frac{5}{6}$

2. $\frac{7}{36}$

3. $\frac{48}{52}$

4. 0.3056

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Simplifying Expressions

Simplify each expression.

5. $8 \cdot 7 \cdot 6 \cdot 5 \cdot 4$

6. $\frac{52 \cdot 51 \cdot 50}{3 \cdot 2 \cdot 1}$

7. $\frac{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{3 \cdot 2 \cdot 1 \cdot 2 \cdot 1}$

Lesson 5-7

Expanding Binomials

Use Pascal's Triangle to expand each binomial.

8. $(a + b)^5$

9. $(j + 3k)^3$

10. $(m + 0.7)^2$

11. $(2 + t)^4$

12. $(m + n)^2$

13. $(x + 3y)^4$

Lesson 6-1

Finding Real Roots

Find the real square roots of each number.

14. $\frac{1}{100}$

15. $\frac{1}{400}$

16. $\frac{1}{196}$

17. $\frac{1}{4}$

18. $\frac{1}{9}$

19. $\frac{1}{576}$



Looking Ahead Vocabulary

20. In driver's education class, students may learn how to drive through a *simulation*. How do you think simulations might be used in a math class?
21. When you describe the likelihood that it will rain tomorrow given that it rained today, you are giving a *conditional probability*. What is the condition in this situation?
22. When you give a value to represent the typical data value in a data set, you are giving a *measure of central tendency* of the data set. What value do you think best represents the following data set? Explain.
 $\{1, 3, 3, 3, 4, 10, 20, 30, 40\}$