

3.2 Exercises



Vocabulary and Concept Check

1. **DIFFERENT WORDS, SAME QUESTION** Which is different? Write “both” expressions.

12 more than x

x increased by 12

x take away 12

the sum of x and 12

2. **REASONING** You pay $0.25p$ dollars to print p photos. What does the coefficient represent?



Practice and Problem Solving

Write the phrase as an expression.

16. the difference of 12 and a number x _____

18. a number t cubed _____

ERROR ANALYSIS Describe and correct the error in writing the phrase as an expression.

20. 16 decreased by a number x

 $x - 16$

22. **TV SHOW** A television show has 19 episodes per season.

Seasons	1	2	3	4	5
Episodes					

a. Complete the table.

b. Write an expression for the number of episodes in n seasons.

Give two ways to write the expression as a phrase.

24. $4w$

26. $14 - 3z$

Write the phrase as an expression. Then evaluate when $x = 5$ and $y = 20$.

28. the sum of a number x and 4,
all divided by 3

Expression: _____

Evaluate: _____

30. the quotient of 40 and the
difference of a number y and 16

Expression: _____

Evaluate: _____

31. **MODELING** It costs \$3 to bowl a game and \$2 for shoe rental.
a. Make a table for the cost of up to 5 games.

b. Write an expression for the cost of g games. _____

c. Use your expression to find the cost of 8 games. _____

32. **PUZZLE** Florida has 8 less than 5 times the number of counties in Arizona. Georgia has 25 more than twice the number of counties in Florida.

a. Write an expression for the number of counties in Florida.

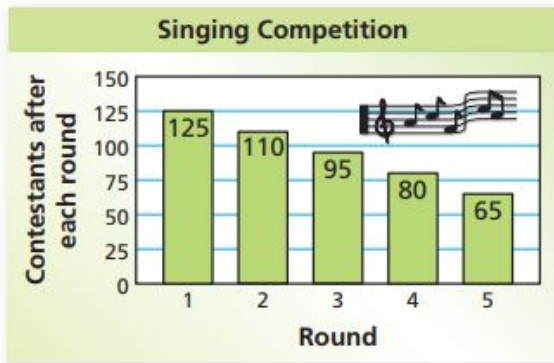
b. Write an expression for the number of counties in Georgia.

c. Arizona has 15 counties. How many do Florida and Georgia have?

Florida: _____

Georgia: _____

33. **PATTERNS** There are 140 people in a singing competition. The graph shows the results for the first five rounds.



- a. Write an expression for the number of people after each round.
- b. How many people compete in the ninth round? Explain your reasoning.

34. **NUMBER SENSE** The difference between two numbers is 8. The lesser number is a . Write an expression for the greater number.

35. **Reasoning** One number is four times another. The greater number is x . Write an expression for the lesser number.
