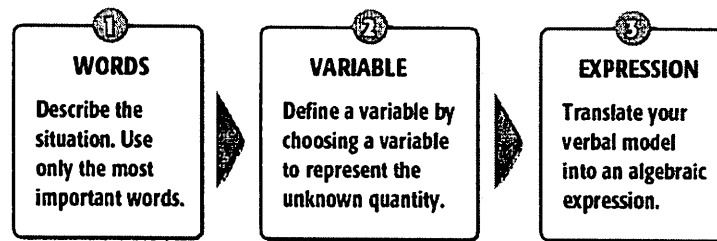


"I Can Write an Algebraic Expression to Represent a Real-World Situation."  
 Writing Algebraic Expressions from Situations



Write the verbal phrase as an algebraic expression.

1. Greg earned Eight dollars more than Ryan earned. Write an expression for the money Greg earned.  
**Let  $r$  represent the money Ryan earned**

Ryan	Greg

2. The sale price when it is ten dollars less than the original price. Write an expression for the sale price.  
**Let  $p$  represent the original price**

Original Price	Sale Price

3. Julie scored 4 fewer points than Ian scored. Write an expression for the points Ian scored.  
**Let  $j$  represent the amount of points Julie scored**

Ian	Julie
	24

If Julie scored 24 points, how many did Ian score?

4. Polly writes for a magazine column for \$25 per hour. Write an expression for the amount of money Polly earns.  
**Let  $h$  represent the hours Polly works**

Hours	Money Earned
8	

How much money will Polly earn in 8 hours?

5. The teacher splits the students in her class into 8 equal groups. Write an expression for the amount of students in each group. **Let  $k$  represent the amount of students in the class**

Total Students in Class	Students in each Group

6. Bernie had \$30 in his bank account. Today, he withdrew  $d$  dollars but tomorrow he will deposit \$15. Write an expression to represent how much money Bernie will have in his bank account after tomorrow.

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7. Jess went to the carnival and bought a ticket for \$12. She then paid an additional \$2 for every game she played. If Jess played  $g$  games at the carnival, write an expression to represent how much money Jess will spend.

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8. Shoko and her friends bought three medium drinks and a box of popcorn at the movies. If  $p$  represents the price of a medium drink, write an expression to represent the total cost.

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9. As a member of a music club, you can order CDs for \$15 each. The music club also charges \$5 for each shipment.

a. Write an expression that represents the total cost for  $n$  CDs.

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b. Find the total cost of 3 CDs

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10. A package of golf balls costs \$22 and a package of golf tees costs \$4.

a. Write an expression that represents the total cost for  $b$  packages of golf balls and  $t$  packages of golf tees.

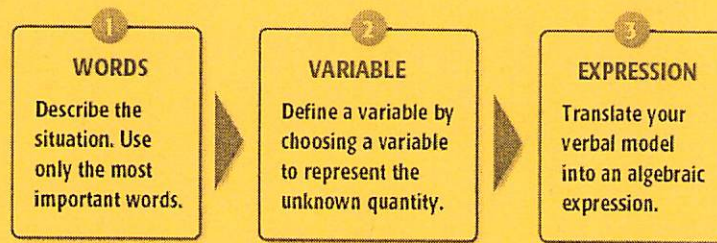
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b. Find the total cost of 2 packages of golf balls and 3 packages of golf tees.

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# "I Can Write an Algebraic Expression to Represent a Real-World Situation."

## Writing Algebraic Expressions from Situations



Write the verbal phrase as an algebraic expression.

1. Greg earned Eight dollars more than Ryan earned. Write an expression for the money Greg earned. **Let  $r$  represent the money Ryan earned**

Ryan	Greg
5	13
20	28
$r$	$r+8$

$$r+8$$

2. The sale price when it is ten dollars less than the original price. Write an expression for the sale price. **Let  $p$  represent the original price**

Original Price	Sale Price
55	45
23	13
$p$	$p-10$

$$p-10$$

3. Julie scored 4 fewer points than Ian scored. Write an expression for the points Ian scored. **Let  $j$  represent the amount of points Julie scored**

Ian	Julie
20	16
12	8
$j+4$	$j$
28	24

$$j+4$$

If Julie scored 24 points, how many did Ian score?

$$28$$

4. Polly writes for a magazine column for \$25 per hour. Write an expression for the amount of money Polly earns. **Let  $h$  represent the hours Polly works**

Hours	Money Earned
1	25
2	50
$h$	$h \cdot 25$
8	200

$$h \cdot 25$$

How much money will Polly earn in 8 hours?

$$\$200$$

5. The teacher splits the students in her class into 8 equal groups. Write an expression for the amount of students in each group. **Let  $k$  represent the amount of students in the class**

Total Students in Class	Students in each Group
24	3
32	4
$k$	$k \div 8$

$$k \div 8$$

6. Bernie had \$30 in his bank account. Today, he withdrew  $d$  dollars but tomorrow he will deposit \$15. Write an expression to represent how much money Bernie will have in his bank account after tomorrow.

$$\underline{30 - d + 15}$$

7. Jess went to the carnival and bought a ticket for \$12. She then paid an additional \$2 for every game she played. If Jess played  $g$  games at the carnival, write an expression to represent how much money Jess will spend.

$$\underline{12 + 2 \cdot g}$$

8. Shoko and her friends bought three medium drinks and a box of popcorn at the movies. If  $p$  represents the price of a medium drink, write an expression to represent the total cost.

Popcorn costs \$3.50

$$\underline{3 \cdot p + 3.50}$$

9. As a member of a music club, you can order CDs for \$15 each. The music club also charges \$5 for each shipment.

a. Write an expression that represents the total cost for  $n$  CDs.

$$\underline{15 \cdot n + 5}$$

b. Find the total cost of 3 CDs

$$\begin{array}{r} 15 \cdot 3 + 5 \\ \hline 45 + 5 \\ \hline 50 \end{array}$$

$$\underline{\$50}$$

10. A package of golf balls costs \$22 and a package of golf tees costs \$4.

a. Write an expression that represents the total cost for  $b$  packages of golf balls and  $t$  packages of golf tees.

$$\underline{22 \cdot b + 4 \cdot t}$$

b. Find the total cost of 2 packages of golf balls and 3 packages of golf tees.

$$\begin{array}{r} 22 \cdot 2 + 4 \cdot 3 \\ \hline 44 + 12 \\ \hline \$56 \end{array}$$

$$\underline{\$56}$$