

Expressions: Multiplication and Division - I

1. Write an algebraic expression for each of the following.

- a. Six teams having t players each.
- b. \$400 divided among n people equally.

Solution:

- a. _____
- b. _____

2. Find the value for each of the expressions.

- a. $4 + (21 \div 3)$
- b. $7 \times (42 \div 6)$
- c. $28 - (5 \times 18) \div 6$
- d. $(8 + 7) \div 3 - (3 \times 8) \div 12$
- e. $11 - (6 \times 11) \div (42 \div 7)$
- f. $1,800 - 3,600,000 \div 6,000$

Solution:

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____
- f. _____

3. Write a numeric expression and find its value. What does the value represent?

- a. 56 students divided into 8 equal groups.
- b. Jenna ran for 3 hours at a speed of 6 miles per hour.
- c. Aurora saved \$700 each month for twelve months.
- d. Lisa distributed 72 candies among a class of 24 students, each student getting the same number of candies.

Solution:

- a.
- b.
- c.
- d.

4. Define a variable/s. Use it to write an algebraic expression.

- a. 6 rows of plants, each having same number of plants.
- b. 36 pizza slices shared among some students.
- c. Cost of 55 songs at an online music store, each song having the same price.
- d. Area of a rectangle is 3 times of its length.

Solution:

- a.
- b.
- c.
- d.

5. Evaluate each of the expressions.

- a. $9 - n \div 8$ if $n = 56$
- b. $7 + 4b$ if $b = 7$
- c. $(p - 3) \times 12$ if $p = 15$
- d. $6 + a \times b \div 12$ if $a = 8$ and $b = 6$
- e. $47 - (t - 10 \div 2)$ if $t = 48$

Solution:

- a.
- b.
- c.
- d.
- e.

6. Which is the value of expression below if $y = 3$?

$$8 - x + (2y - 3)$$

- | | |
|-------------|-------------|
| A. $5 - x$ | C. $11 + x$ |
| B. $2 + 2y$ | D. $11 - x$ |

Solution:

7. Tim has 72 books to put in s number of shelves. How many books will Tim put in each shelf?

- | | |
|----------------|----------------|
| A. $s \div 72$ | C. $72 \div s$ |
| B. $72 s$ | D. $72 - s$ |

Solution: