

Expressions with Variables

1. Which out of the following are expressions with numbers only?

a. $5x$

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b. 9

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c. $x+8$

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d. $(4 \times 25) - 3z$

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e. $3(15-11) \times 6 \times 9$

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f. $(7 \times 30) - (6 \times 20) - x$

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2. Give expressions for the following cases:

a. 9 added to a

b. 7 subtracted from x

c. n multiplied by 5

d. q divided by 8

e. -3 divided by x

3. Give expressions in the following cases:

a. 15 added to $6x$.

b. 18 subtracted from $5x$.

c. X is multiplied by -9 and then 6 is added to the result.

d. X is multiplied by 10 and result is subtracted from 20.

e. 5 times X to which 4 is added.

4. Write each of the following statements using numbers, literals and signs of basic operations.

a. 15 added to thrice of a number x.

b. One half of the sum of numbers a and b.

c. Quotient of x by y added to the product of x and y.

d. Nine times a number m is n less than a number p.

5. Write the following expressions in words.

a. $16 - x = 9$

b. $5x + 9$

c. $t = 20d$

d. $\frac{p}{q} = 6s$

6. Perimeter of a triangle is found by using the formula $p = x + y + z$, where x , y and z are the sides of the triangle. Write the rule that is expressed by this formula, in words.