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6th Grade Math Algebraic Expressions Worksheet

6TH GRADE **EXPRESSIONS AND PROPERTIES**

mathskills4kids

Name: _____ Class: _____

Write variable expressions; one operation

Write an expression for the following operations described below.

1. x added to 15 is the keyword here is add. add x to 15. $x + 15$
2. The product of x and 5. the keyword here is product. multiply x by 5. $x \times 5$
3. 25 divided by y . the keyword here is divide. divide 25 by y . $25 \div y$
4. Add t and s . the keyword here is add. add t to s . $t + s$
5. a minus 2 is a . the keyword here is minus. subtract 2 from a . $a - 2$
6. subtract y from x . the keyword here is subtract. subtract y from x . $x - y$
7. y to the third power. the keyword here is 3rd power. y^3
8. 100 divided by u . the keyword here is divide. divide 100 by u . $100 \div u$

Write variable expressions; two operations

Write an expression for the following operations described below.

1. Multiply 10 by a , then raise the result to the 5th power. $(10a)^5$
2. $4x^2 - 9x + 8y^2 - xy + 7z$
3. $2 + (10x + 3y) - (2x + 1) + 10y$
4. $2x + 11x^2 + 9y + 8x + 8y + 11$
5. $7x^2 - 9y - 7z - 10x^2 - 5y + 7z$
6. $15 \div 5 + 18 - 2x - 20 + 12x$
7. $3x - 8 - 9 + 3x^2 + x^2 - 13 + 1$

Evaluate multi-variable expressions

Find the values of the following expressions.

1. $15 + x + y$. Where $x = 6$ and $y = 2$.
 Substitute the values of x and y into the expression.
 $15 + 6 + 2 = 23$
 So, $15 + x + y = 23$
1. $p^2 + q$. Where $p = 25$ and $q = 100$.
 $25^2 + 100 = 625 + 100 = 725$
2. $(m + n) \div 5$. Where $m = 15$ and $n = 10$.
 $(15 + 10) \div 5 = 25 \div 5 = 5$
3. $x + y + z + a$. Where $x = 6$, $y = 15$, $z = 2$ and $a = 5$.
 $6 + 15 + 2 + 5 = 28$
4. $p - (q + r)$. Where $q = 4$, $p = 5$ and $r = 3$.
 $5 - (4 + 3) = 5 - 7 = -2$
5. $c \cdot d^2 + 6$. Where $c = 2$, $b = 5$ and $d = 1$.
 $2 \cdot 1^2 + 6 = 2 + 6 = 8$
6. $x - (5 - 1 - (u + v))$. Where $x = 2$, $u = 2$ and $v = 1$.
 $2 - (5 - 1 - (2 + 1)) = 2 - (5 - 1 - 3) = 2 - (1) = 1$

Properties of addition

Identify property of addition?

1. $(3+3)+2 = 6+3 = 9$
2. $6+0 = 6$
3. $(5+2)+7 = (5+2)+9 = 14$
4. $(3+5)+2 = 8+2 = 10$
5. $5+0 = 5$
6. $(2+7)+3 = (3+2)+9 = 12$
7. $(3+5)+2 = 8+2 = 10$
8. $5+0 = 5$
9. $(5+2)+7 = (5+2)+9 = 14$
10. $(3+5)+2 = 8+2 = 10$
11. $5+0 = 5$
12. $(5+2)+7 = (5+2)+9 = 14$

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