

10/17

6.EE.1 Exponents/Order of operations

What is the value of 7^2 ? $7 \cdot 7 = 49$ What is the value of 12^0 ? 1	What is the value of: $6 \times 8 - 3(25 - 15)$ $6 \times 8 - 3(5^2 - 15)$ $6 \times 8 - 3 \times 10$ $48 - 3 \times 10 \rightarrow 18$ $48 - 30$
Evaluate: $16 \div 2 \times 8 + 3^2$ $16 \div 2 \times 8 + 9$ $8 \times 8 + 9$ $64 + 9$ 73	Evaluate: $13 + 4(7 - 2^2)$ $13 + 4(7 - 4)$ $13 + 4(3)$ $13 + 12$ 25
What is the value of the expression? $(3^2 \times 4) - (4 + 2^3)$ $(9 \cdot 4) - (4 + 8)$ $36 - 12 \rightarrow 24$	What is the value of the exponent, x ? $4^x = 64$ $x = 3$ $4^1 = 4$ $4^2 = 16$ $4^3 = 64$

6.EE.2a Writing Expressions

Write the expression for: Sixteen less than one-half a number, n $\frac{1}{2}n - 16$	Moriah bought a new container of push pins for her bulletin board. The new container had 50 push pins. When she opened it, x amount spilled onto the floor. What expression could be used to find how many she had left in the package? $50 - x$
Write the expression for: The difference between 45 and a number, h $45 - h$	Write the expression for: Twice a number less than 9 $2x - 9$

6.EE.2b Parts of an expression

Identify the parts of the expression: $2x + 7$ Coefficient: 2 Constant: 7 Variable: x	How many factors are in the expression: $2(7 + x)$? Circle your answer. 1 <u>2</u> 3 4
How many terms are in the following expression? $3xy + 7y + 13 + 2xyz$ 4	What are the coefficients in the following expression? $9xy - 2xyz + 9$ $9, -2$

6.EE.2c Evaluating Expressions


What is the value of $mp - n$, if $m = 1/2$, $n = 2/3$ and $p = 0.4$ $\frac{1}{2}(0.4) - \frac{2}{3}$ $\cdot 2 = \frac{2}{3}$ $-\frac{2}{3}$ $-\frac{14}{30}$	What is the value of $2x + 3y$ if $x = 5$ and $y = 6$? $2(5) + 3(6)$ $10 + 18$ 28
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kmj

A school club wants to order T-shirts for its members. There is a \$35 set-up fee and each tee-shirt is \$6. An equation representing the total cost is $c = 6n + 35$ where n is the number of tee-shirts ordered and c is the total cost. How much will it cost the club to order shirts for 85 members?
 $(6 \cdot 85) + 35$
 $510 + 35$
\$545

A car wash company earns \$10.00 to wash the outside of a car and \$5.00 to clean the inside of a car. They washed the outside of 12 cars and cleaned the inside of 8 cars. How much did the car wash company earn total?
 $(12 \cdot 10) + (8 \cdot 5)$
 $120 + 40$
\$160

A supermarket has bananas on sale this week. The cost for bananas, in dollars, can be calculated using the expression below where p represents the number of pounds of bananas bought.
 $0.30p$
 $0.30(15) =$ **\$4.50**
 What is the total cost, in dollars, for 15 pounds of bananas?

An equilateral triangle has a side length of $9x$. If $x = 1/3$, what is the perimeter of the triangle?

 $9x + 9x + 9x$
 $9(1/3) + 9(1/3) + 9(1/3)$
 $3 + 3 + 3$
9

6.EE.3: Properties

What expression is equivalent to $7(a + 4b + 3)$?
 $7a + 28b + 21$

What expression is equivalent to $1/3(6y + 9) + 5y$?
 $2y + 3 + 5y \rightarrow 2y + 5y + 3$
 $7y + 3$

Use the commutative property to rewrite the equation:
 $12 = -6 + m$
 $m - 6 = 12$

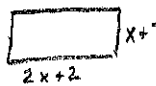
Apply the commutative property to the following expression:
 $3x + 9 + 4y$
 $3x + 4y + 9$

6.EE.4 Equivalent Expressions

What is an equivalent expression for $3(x + 2y)$?
 $3x + 6y$

Factor out the GCF to create an equivalent expression for: $24x + 36y$
 $2 \begin{array}{r} 24x \\ 36y \end{array}$
 $2 \begin{array}{r} 12x \\ 18y \end{array}$
 $3 \begin{array}{r} 4x \\ 9y \end{array}$
 $2x \cdot 3y$
 $12(2x + 3y)$

Factor out the GCF to create an equivalent expression for: $36x^2 + 72x$
 $2 \begin{array}{r} 36x^2 \\ 72x \end{array}$
 $2 \begin{array}{r} 18x^2 \\ 36x \end{array}$
 $3 \begin{array}{r} 9x^2 \\ 18x \end{array}$
 $3 \begin{array}{r} 3x^2 \\ 6x \end{array}$
 $x \begin{array}{r} x^2 \\ 2x \end{array}$
 $36x(x + 2)$

What is the perimeter of a rectangle with the width of $x + 7$, and a length of $2x + 2$? (DRAW IT)

 $x + 7 + x + 7 + 2x + 2 + 2x + 2$
 $6x + 18$

What is the area of a square with a length of $2x$?
 $2x(2x)$
 $4x^2$

Factor out the GCF to create an equivalent expression for: $54x + 32y$
 $2 \begin{array}{r} 54x \\ 32y \end{array}$
 $27x \cdot 16y$
 $2(27x + 16y)$

What is an equivalent expression for:
 $5(3y + 6m) + 1/2(8y + 4m)$
 $15y + 30m + 4y + 2m$
 $32m + 19y$

What is an equivalent expression for:
 $0.6(36x + 18y) + 1/3(9x + 12y)$
 $6x + 3y + 3x + 4y =$ **$18x + 7y$**