

1.1 Evaluating Expressions and Order of Operations

Write your questions here!



Variable:

Algebraic Expression(_____):

Evaluate:

Evaluate each expression when $n = 3$

Power:

$$5^3 = 5(5)(5) = 125$$

Write the power in words and as a product:

ORDER of OPERATIONS:

G-

E-

M-

A-

D-

S-

Simplify each expression:

Evaluate each expression:

You try!

SUMMARY:

Now,
summarize
your notes
here!



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PRACTICE

Evaluate the expression:		
1) $.4r$ when $r=6$	2) $.8 + h$ when $h = 3.7$	3) $\frac{1}{2}k$ when $k = \frac{2}{3}$
Write the power in words and as a product.		
4) 12^5	5) $\left(\frac{1}{2}\right)^8$	
Describe AND correct the error in evaluating the power.		
6) $(0.4)^2 = 2(0.4) = 0.8$		
Evaluate the power.		
7) 1^5	8) 2^6	9) $\left(\frac{1}{6}\right)^3$
Evaluate the expression.		
10) $x + y$ when $x = 11$ and $y = 6.4$		
Evaluate the expression:		
11) $13 - 8 + 3$	12) $5 \cdot 2^3 + 7$	13) $2^4 \cdot 4 - 2/8$

14) $24+4(3+1)$	15) $\frac{1}{2}(21+2^2)$	16) $8[20 - (9 - 5)^2]$
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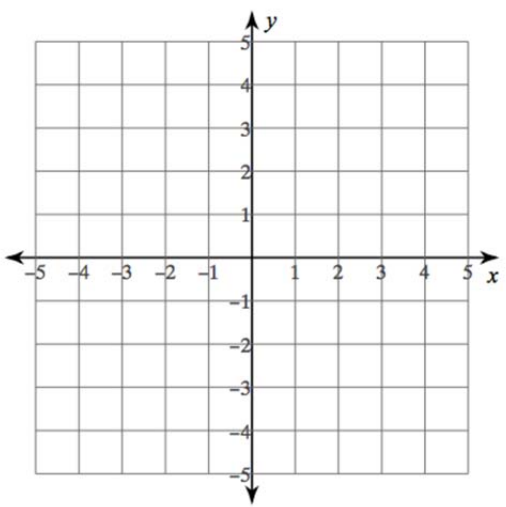
Describe and correct the error in evaluating the expression.

$20 - \frac{1}{2} \cdot 6^2 = 20 - 3^2$
17) $= 20 - 9$ $= 11$

Evaluate the expression:

18) $6t^2 - 13$ when $t = 2$	19) $3(m^2-2)$ when $m=1.5$	20) $\frac{b^3 - 21}{5b + 9}$ when $b = 3$
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Skillz Review

Plot the points: 1) (4, -2) 2) (0, 3)	Simplify: 3) $\frac{5-(-3)}{10-6}$	Simplify: 4) $-2(-1)^2 + 4$
	5) $\frac{10-16}{3-(-3)}$	6) $-4 - \left(\frac{6}{2}\right) + 5(-1)$

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APPLICATION

Directions: EVALUATE:

1) n^3 when $n = \frac{2}{3}$

2) $\frac{h^2 - 1}{h + 3}$ when $h = 5$

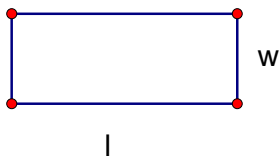
3) For your birthday you get an i-Tunes gift card. The total cost for you to buy 3 albums at \$9.99 each and then 5 individual songs each worth \$1.29 is given by the expression $3(9.99) + 5(1.29)$.

a) Find the total cost of your i-Tunes purchases.

b) Suppose your gift card is worth \$50. How much money (if any) do you have left?

DIRECTIONS: Evaluate the given formula for each geometric shape.

Perimeter = $2(l + w)$



4) $L = 15, w = 7$	5) $L = 8.25, w = 4.5$
6) $b_1 = 2, b_2 = 4, h = 4$	7) $b_1 = 20, b_2 = 24, h = 14$

Area of Trapezoid = $\frac{(b_1 + b_2)h}{2}$

