Grab a sprint for the back of the class.

You have 5 minutes to complete it from when the late bell rings.

We will collect and grade this assignment!

Name:_____ Score
Evaluating Expressions Sprint | _____/10

Directions: INDEPENTENTLY evaluate each expression below for the given variables.

$a = 3$ $b = -1$ $c = \frac{1}{2}$ $d = -2$

1. $ab - d$ _____

2. $\frac{a+b}{d}$ _____

3. cd _____ $\frac{1}{2}$ $\frac{-2}{-1}$

4. $\sqrt{6+a}$ _____   ■   1

5. $(b+d)^3$ _____

6. $a^2 - d^2$ _____

7. $b - d$ _____

8. $c\left(\frac{d}{b}\right)$ $\left(\frac{1}{2}\right)\left(\frac{-2}{-1}\right) = 1$

9. $\frac{ab}{a^2} - d$ _____

10. $a - b + cd$ _____

Evaluating Expressions

$125

Constant

You are saving for a skateboard. Your aunt gives you $45 to start and you save $3 each week. The expression $45+3w$

variable

gives the amount of money you save after w weeks.

a. How much will you have after 4 weeks, 10 weeks, and 20 weeks?

4 weeks: $45 + 3(4) = 57$

10 weeks: $45 + 3(10) = 75$

20 weeks: $45 + 3(20) = 105$

b. After 20 weeks, can you buy the skateboard? Explain.

No b/c he doesn't have enough

He needs $20 more

$$\begin{array}{r} 125 \\ -105 \\ \hline 20 \end{array}$$

Jill needs to find the area of a triangle. If the base of the triangle
is 4 ft. and the height is 8 ft., what is the area of the triangle?
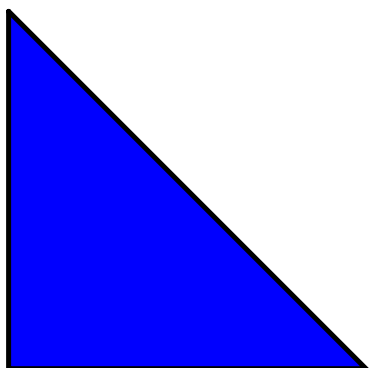(A = 1/2bh) Show all work.

h

b

1/2(4)(8)

16

$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2}(4)(8)$$

$$\boxed{A = 16}$$

Frank is 12 years old. One day, his parents took him and his younger sister to a baseball game. The tickets for the game were priced at $17 for adults (a) and $13 for children 13 years and younger (c). Write an expression for the total cost of the tickets for Frank's family and find the total cost?

$$17a + 13c$$
$$17(2) + 13(2)$$

$$13 + 13 + 17 + 17$$
$$13 + 17(2) + 13$$

$60

Skyler completed the following problem. ~~Determine if she is correct.~~ ①
If she is not, ~~explain her error and find the correct solution~~

Evaluate $-2x^2 - 5y^3$ if x = −4 and y = −1

$-2(-4^2) - 5(-1^3)$
$-2(-16) - 5(-1)$
$32 + 5$
37

$-2(-4)^2 - 5(-1)^3$

$-2(16) - 5(-1)$

$-32 + 5$

$\boxed{-27}$

Exponents
Should be
outside
Parentheses

Attachments

M&M.pdf