Lesson 3.1 day 2

Friday, August 12, 2016 7:28 AM

! Daily Quest:

▶ Evaluate the expression given $x = -3$ *and* $y = 2$

1) $5 + (y - x)^2$

$5 + (2 + +3)^2$

$5 + (5)^2$

$5 + 25$

30

2) $(y + 5) - 4y$

$(2 + 5) - 4(2)$

$7 - 4(2)$

$7 - 8$

-1

Challenge problem: $5 + 9y \div xy + 4$

P

E

(L to R) M/D or D/M

A/S or S/A

$5 + 9(2) \div -3(2) + 4$

$5 + (18 \div -3(2)) + 4$

$5 - 6(2) + 4$

$5 - 12 + 4$

$-7 + 4$

-3

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Lesson 3.1 Day 2 Evaluate Expression Interpret terms

Goal: To identify, evaluate and use operations with expressions/polynomials.

Objective: SWBAT to evaluate and interpret terms from an expression.

Homework ?s

3. Evaluate $(4x + y)^2 - 3z$ for $x = 2, y = -1, z = 5$

34

$(4(2) + -1)^2 - 3(5)$
$(8 - 1)^2 - 3(5)$
$7^2 - 3(5)$
$49 - 3(5)$
$49 - 15$
34

4. Evaluate $b^2(c + 4)$ for $b = 3, c = -2$

18

5. Evaluate $7a - 5b + 4$ for $a = 2, b = 3$

3

$7(2) - 5(3) + 4$
$14 - 15 + 4$
$-1 + 4$
3

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Problem 1:

▶ Evaluate the expression given $z = 6$.

$(5z \div 6)(2 + z)$ $(z - 2) \div 4 + z^2$

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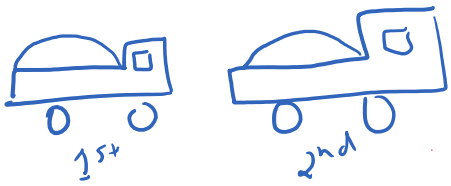
Problem 1a:

- Evaluate the expression given $r = 1$ and $q = 3$.

$r + 3(r + q)^2$ $(r + 4r + q) \div 2$



Problem 2:

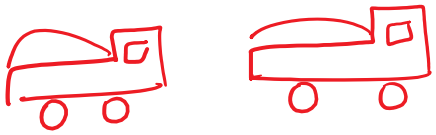
A company uses two different-sized trucks to deliver sand. The first truck can transport x cubic yards, and the second y cubic yards. The first truck makes S trips to a job site, while the second makes T trips. What quantities do the following expressions represent in terms of the problem's context?

What does S represent? The amount of trips for the 1st truck.

What does T represent? The amount of trips for the 2nd truck.

What does $S + T$ represent? The total amount of trips for both trucks.

Problem 2a:



A company uses two different-sized trucks to deliver sand. The first truck can transport x cubic yards, and the second y cubic yards. The first truck makes S trips to a job site, while the second makes T trips. What quantities do the following expressions represent in terms of the problem's context?

What does x represent? The amount of sand (in cubic yds) for the 1st Truck.

What does y represent? The amount of sand (in cubic yds) for the 2nd Truck

What does $x + y$ represent?

the total amount of sand (in cubic yds) for both trucks.

Problem 2b:

A company uses two different-sized trucks to deliver sand. The first truck can transport x cubic yards, and the second y cubic yards. The first truck makes S trips to a job site, while the second makes T trips. What quantities do the following expressions represent in terms of the problem's context?

What does xS represent? The amount of sand (in cubic yds) transported to the job site by the 1st truck.

What does yT represent? The amount of sand (in cubic yds) transported to the job site by the 2nd truck

What does $xS + yT$ represent?

→ The total amount sand (in cubic yds) transported to the job site by both trucks.

Problem 3:

- A publishing company orders black and red ink in a bulk for its two-color printing press. To keep things simple with its ink supplier, each time it places an order for red ink, it buys R gallons, and each time it places an order for black ink, it buys B gallons. Over a one-month period, the company places m orders of red ink and n orders of black ink.

What is does R represent?

What is does B represent?

What does $R + B$ represent?

Problem 3:

- A publishing company orders black and red ink in a bulk for its two-color printing press. To keep things simple with its ink supplier, each time it places an order for red ink, it buys R gallons, and each time it places an order for black ink, it buys B gallons. Over a one-month period, the company places m orders of red ink and n orders of black ink.

What is does m represent?

What is does n represent?

What does $m + n$ represent?

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Problem 3:

- A publishing company orders black and red ink in a bulk for its two-color printing press. To keep things simple with its ink supplier, each time it places an order for red ink, it buys R gallons, and each time it places an order for black ink, it buys B gallons. Over a one-month period, the company places m orders of red ink and n orders of black ink.

What is does mR represent?

What is does nB represent?

What does $mR + nB$ represent?