

11 September 2014

1.1 expressions verbal & written
story problems review

Mr. Bailey purchased some groceries that cost d dollars. He paid with a \$50 bill. Write an expression for the amount of change he will receive.

$$\$50.00 - d$$

Write a story for the algebraic expression $20 - p$ where p stands for peanuts that Lorenzo bought.

Lorenzo bought p number of peanuts. The store only had 20 peanuts. Write an expression for the number of peanuts the store has left.

Make up a sentence for PEMDAS by 11/15

1-2 order of operation

I can apply order of operations on expressions and equations.

Parenthesis

Exponents

Radical ($\sqrt{\quad}$)

Multiplication

Division

Addition

Subtraction

* Always work left to right

PERMDAS

Evaluate:
(together)

$$\frac{2^5 - 6 \cdot 2}{3^3 - 5 \cdot 3 - 2} \quad (2^5 - 6 \cdot 2) \div (3^3 - 5 \cdot 3 - 2)$$
$$\frac{32 - 6 \cdot 2}{27 - 5 \cdot 3 - 2}$$
$$\frac{32 - 12}{27 - 15 - 2}$$
$$\frac{20}{10} \rightarrow 2$$

Evaluate:

*

$$4[12 \div (6 - 2)]^2$$
$$4[12 \div 4]^2$$
$$4[3]^2$$
$$4(9)$$
$$36$$

11 September 2014

white board practice

Evaluate:

4. $[(9^2 - 9) \div 12] 5$

5. $2(4+7) \cdot (9-5)$

6. $3[5-2 \cdot 2]^2$

7. $\frac{3^3 - 4 \cdot 3}{2^5 - 5 \cdot 3 - 2}$

Find the error

$$6 + 9 \div 3 \times 4$$

$15 \div 3 \times 4$ ← added before dividing

5×4 correct answer:

$$20$$

$$6 + 9 \div 3 \cdot 4$$

$$6 + 3 \cdot 4$$

$$6 + 12$$

$$18$$

Evaluate an Algebraic expression

$$2(x^2 - y) + z^2 \text{ if } x=4, y=3, \text{ and } z=2$$

$$2(4^2 - 3) + 2^2 \quad (\text{exponents})$$

$$2(16 - 3) + 4 \quad (\text{parenthesis})$$

$$2(13) + 4 \quad (\text{multiplication})$$

$$26 + 4 \quad (\text{addition})$$

$$30$$

*homework 1.2 skill practice order of operation