Algebra 1   Bellwork   Monday, September 15, 2014

Write a variable expression for each statement.
1. Eight less than the qoutient of a five and a number.

2. The difference of twelve and a number.

3. Three more than the product of a number and ten.

4. There are 6080 feet in a nautical mile. Write an equation for the number of feet in an unknown number of nautical miles. Define your variables.

5. There are 16 ounces in a pound. Write an equation for the number pounds in an unknown number of ounces. Define your variables.

6. Write an equation to model the data in the table.

$ US	4	6	11	20
Pesos	53	79.5	145.75	265

7. Simplify. $5 - |4 - 7| + 2(3 - 6((7 - 1)^2 \div 6 - 4)^3 \div 4)$

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Write a variable expression for each statement.
1. Eight less than the qoutient of a five and a number. $\dfrac{5}{\varphi} - 8$

2. The difference of twelve and a number. $12 - A$

3. Three more than the product of a number and ten. $m \cdot 10 + 3$

4. There are 6080 feet in a nautical mile. Write an equation for the number of feet in an unknown number of nautical miles. Define your variables. $f = 6080N$ $f = \text{\# feet}$ $N = \text{\# naut mi}$

5. There are 16 ounces in a pound. Write an equation for the number pounds in an unknown number of ounces. Define your variables. $P = \dfrac{Z}{16}$ $Z = \text{\# ounces}$ $P = \text{\# pounds}$

6. Write an equation to model the data in the table.

$ US	4	6	11	20
Pesos	53	79.5	145.75	265

$D = \text{\# \$ US}$ $P = \text{\# pesos}$

$\dfrac{P}{D} = 13.25$ or $P = 13.25 D$ or $D = P / 13.25$

7. Simplify. $5 - |4 - 7| + 2(3 - 6((7 - 1)^2 \div 6 - 4)^3 \div 4)$

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$(6^2 \div 6 - 4)^3$
$(36 \div 6 - 4)^3$
$(6 - 4)^3$
$(2)^3 = 8$

$5 - 3 + 2(3 - 6(8) \div 4)$
$5 - 3 + 2(3 - 48 \div 4)$
$5 - 3 + 2(3 - 12)$

$5 - 3 + 2(-9)$
$5 - 3 + -18$ $= 2 + -18 = \boxed{-16}$