Unit 1 Practice Test

Simplify.

Solve.

1. $\dfrac{21+(12-3*6)}{(-1-4)^2}$

2. $\dfrac{x+4}{5} = \dfrac{x-6}{3}$

Solve for t.

3. $3y + ct = h$

4. $y - 8b + 3tz - 6ab = 0$

Use dimensional analysis.

5. Convert 27 gallon per hour into pints per second

6. How fast in kilometers per minute is 63,859,050 centimeters per week? Round to the nearest tenths place.

7. Jenni's mom gave her $15 to run to the store to get some donuts and eggs for breakfast. The eggs were on sale for $3.28.

$$.75x + 3.28 \leq 15$$

       a. What is the VOCAB term for 3.28?

       b. What is the VOCAB term for .75?

       c. What does the .75 represent IN CONTEXT?

       d. What does the *x* represent IN CONTEXT?

       e. What does the .75x represent IN CONTEXT?

Solve. VERIFY YOUR STEPS.

8. $\dfrac{-2+11x}{-4} > 6$

Write the equation or inequality, then solve.

9. My mom gives me $5.00 for every goal I score in hockey, but takes money away for my penalties. After losing $12 in penalties this season, I still ended up with $68. How many goals did I score this year?

10. 4 times the sum of 9 and some number is at least 8 less than 6 times that number.