

Chapter 1

Review

1.1 - Expressions and Exponents

Evaluate the expression.

- 1) $\frac{x}{5}$ when $x = 30$
- 2) n^3 when $x = 20$
- 3) $15 - t$ when $t = 3.2$

1.2 - Order of Operations

Simplify.

- 3) $(5^2 + 17) \div 7$
- 4) $7 + 3^2 \cdot 2$

1.3 - Write Expressions

- 5) The sum of 19 and the cube of a number x .
- 6) Half the sum of 12 and the quotient of a number t and 4.

1.4 – Writing Equations & Inequalities

- 6) Twice the difference of a number z and 12 is equal to 10.
- 7) The sum of 23 and the square of a number b is no more than 80

1.4 – Writing Equations & Inequalities

Check whether the given number is a solution.

- 8) $2 + 3x = 10$; 2 9) $11y - 15 \leq 30$; 3

1.5 – Problem Solving

Check whether the given number is a solution.

- 10) A migrating whale is traveling at an average speed at 5.4 kilometers per hour. How far will the whale travel in 18 hours at this rate?

1.5 – Problem Solving

Check whether the given number is a solution.

- 11) Your family car travels about 28.5 on each gallon of gas. Suppose the average price of gas is \$3 per gallon. About how much would your family pay for gas for a 912 mile trip?