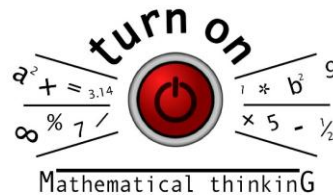


Real World Translating:

Defining Variables and Writing Equations



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Real World Translating

Define a variable for each unknown, and then translate into an Algebraic equation.

<p>1) The sum of two numbers is 34.</p> <p>Let x = first number Let y = second number</p> <p>_____</p>	<p>2) Sixty is the product of two numbers.</p> <p>Let ___ = _____ Let ___ = _____</p> <p>_____</p>	<p>3) The first of two numbers is 3 times the second.</p> <p>Let ___ = _____ Let ___ = _____</p> <p>_____</p>	<p>4) Adult tickets cost \$5 and student tickets cost \$3 to see a local play.</p> <p>Let C = total cost Let ___ = _____ Let ___ = _____</p> <p>_____</p>	<p>5. An apple costs \$0.50 more than an orange.</p> <p>Let ___ = _____ Let ___ = _____</p> <p>_____</p>
<p>6) John is twice as old as Jeff.</p> <p>Let ___ = _____ Let ___ = _____</p> <p>_____</p>	<p>7) Jan and Jill made \$60 babysitting.</p> <p>Let ___ = _____ Let ___ = _____</p> <p>_____</p>	<p>8) The first of two numbers is 3 times the second.</p> <p>Let ___ = _____ Let ___ = _____</p> <p>_____</p>	<p>9) The length of a rectangular field is 10 meters less than 8 times the width.</p> <p>Let ___ = _____ Let ___ = _____</p> <p>_____</p>	<p>10) Together, a shirt, a pair of pants, and a pair of shoes cost \$100.</p> <p>Let ___ = _____ Let ___ = _____ Let ___ = _____</p> <p>_____</p>
<p>11) The perimeter of a rectangle is two times the sum of the length and the width</p> <p>Let ___ = _____ Let ___ = _____</p> <p>_____</p>	<p>12) Tacos cost \$2, and burritos cost \$3. Write an equation for how much Mike spent at the Taco Hut.</p> <p>Let C = total cost Let ___ = _____ Let ___ = _____</p> <p>_____</p>	<p>13) A number squared is three times another number plus four.</p> <p>Let ___ = _____ Let ___ = _____</p> <p>_____</p>	<p>14) Fahrenheit temperature is the product of $\frac{9}{5}$ and the Celsius temperature, then increased 32 degrees.</p> <p>Let ___ = _____ Let ___ = _____</p> <p>_____</p>	<p>15) The output of an equation, y, is the slope, m, multiplied by the input, x, increased by the y-intercept, b.</p> <p>Let ___ = _____ Let ___ = _____ Let ___ = _____</p> <p>_____</p>

KEY: Real World Translating

Variables may vary!

1) $x + y = 34$

2) $xy = 60$

3) $x = 3y$

4) $C = 5x + 3y$

5) $A = O + .50$

6) $J = 2F$

7) $X + y = 50$

8) $X = 3y$

9) $L = 8w - 10$

10) $X + y + z = 100$

11) $P = 2(l+w)$

12) $C = 2x + 3y$

13) $X^2 = 3y + 4$

14) $F = \frac{9}{5}C + 32$

15) $Y = mx + B$

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