

Name
8/23/16 or
8/24/16

Alg. I

Using a Problem Solving Plan

I can use a problem solving plan to solve problems.

- 1) Read and Understand
- 2) Make a plan
- 3) Solve the problem
- 4) Look back

Ch. 1 Quiz
9/1 or 9/2

Example 1/2:

Temperature:

$$C = \frac{5}{9}(F - 32)$$

C = Celsius
F = Fahrenheit

$$\begin{aligned} & \downarrow \quad \quad \quad \times \quad \quad \downarrow \\ & \text{length of short block} \times \text{Number of short blocks} + \\ & \downarrow \quad \quad \quad \times \quad \quad \downarrow \\ & \text{length of long block} \times \text{Number of long blocks} = \end{aligned}$$

Simple Interest:

$$I = Prt$$

I = interest
P = principal
r = interest rate
t = time

Total distance
 \downarrow
3

$$\begin{aligned} .15 + .15 \times 4 &= 3 \\ .15 + .6 &= 3 \\ .1(24) + .6 &= 3 \\ .24 + .6 &= 3 \checkmark \end{aligned}$$

24 short blocks

Distance Traveled:

$$d = rt$$

d = distance traveled
r = rate
t = time

Formula: An equation that relates 2 or more quantities.

Example 3:

Profit: $P = I - E$
p = profit E = expenses
I = income

$$\begin{aligned} 2) A &= l \cdot w & \$2.40(60) &= 144 \\ A &= 12(5) & \boxed{D = 144} & \\ A &= 60 & & \end{aligned}$$

*Complete Skills
Practice pg. 31,
#4, 6, 8, 16, 17