

## Algebra 1

- Warm Up
- Check HW
- Notes on 3.6 Equations & Problem Solving (2 Days)
- Classwork/Homework

**OBJECTIVE**

Students will be able to define problems using variables and solve RTD problems.

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### Warm Up

**1. What are consecutive integers? Give an example.**

**2. How do you find the perimeter of a rectangle? Can you come up with an equation.**

## Consecutive Integers Problems

Three consecutive integers have a sum of 189. What are the three integers?

Three consecutive even integers have a sum of 378. Find the three integers.

Group: You Try

Four consecutive odd integers have a sum of 424, find the four integers.

### **Perimeter Problems.**

In a rectangle, the length is 6 in. more than the width. If the perimeter of the rectangle is 42 in., find the dimensions (length and width).

If the width of a rectangle is twice the measure of the length and has a perimeter of 36, find the dimensions.

STOP HERE

## Classwork/Homework

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Warm Up

No Warm Up

**A train made a trip to Chicago and back. On the trip there, it chugged at 96 mph and on the return trip it went 112 mph. How long did the return trip take, if it took 9 hours to get there.**

Rate	Time	Distance

**A canoe left the dock and traveled toward the other side of the lake which took 2 hours. On the way back they used a motor boat to travel back and got back in  $\frac{1}{2}$  hour as they traveled at a speed of 15 mph. How fast were they traveling in the canoe?**

Rate	Time	Distance



Jenna left school and traveled toward her friend's house at an average speed of 20 km/hr. Matt left one hour later and traveled in the opposite direction with an average speed of 42 km/hr. Find the number of hours Matt needs to drive before they are 268 km apart?

Rate	Time	Distance

**An airplane left Florida three hours before a Cruise Ship. The vessels traveled in opposite directions. The Cruise Ship traveled at 20mph for 8 hours. After this time, the vessels were 1810 miles apart. Find the airplanes speed.**

Rate	Time	Distance

Ryan left the science museum and drove south. Gabriella left three hours later driving 42 km/h faster in an effort to catch up to him. After two hours Gabriella finally caught up. Find Ryan's average speed.

Classwork/Homework

RTD Worksheet