

# Algebra I

WP-7

## Worksheet

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- 2) Find the number of round-trip commuter rail tickets sold.
- (1) Thirty times as many round-trip tickets as 12-ride tickets were sold.
  - (2) The total number of train rides sold were 1440.


- 4) Find the amount of time Joel spent watching space adventure movies.
- (1) He saw twice as many 1.5 hour space movies as he did 2 hour mysteries.
  - (2) He spent a total of 15 hours watching movies.


- 5) Find the number of Calories in an orange and in a peach.
- (1) An orange has 30 Calories more than a peach.
  - (2) Thirteen peaches have as many Calories as 7 oranges.


- 6) Find the number of Calories in a stalk of celery and in a carrot.
- (1) A carrot has 13 Calories more than a celery stalk.
  - (2) Five carrots and ten celery stalks have only 170 Calories.


- 7) The length of a red rectangle is 15 cm more than its width  $w$ . A blue rectangle, which is 5 cm wider and 2 cm shorter than the red one, has perimeter 72 cm. Make a sketch of the rectangles expressing all dimensions in terms of  $w$ . Then find the dimensions of each rectangle.


- 8) The length of a rectangle is twice its width  $w$ . A second rectangle, which is 8 cm longer and 3 cm narrower than the first rectangle, has perimeter 154 cm. Make a sketch of the rectangles expressing all dimensions in terms of  $w$ . Then find the dimensions of each rectangle.
