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Tasks

Fishing Adventures

Fishing Adventures rents small fishing each oats to tourists for day-long fishing trips. Each boat can hold at most eight people. Additionally, each boat can only carry 900 pounds of weight for safety reasons.

a. Let $p$ represent the total number of people. Write an inequality to describe the number of people that a boat can hold. Draw a number line diagrams that shows all possible solutions.

b. Let $w$ represent the total weight of a group of people wishing to rent a boat. Write an inequality that describes all total weights allowed in a boat. Draw a number line diagram that shows all possible solutions.

Gifts from Grandma

1. Sandra has 6 grandchildren, and she gave each of them $9. How much money did she give her grandchildren altogether?

2. Nita gave each of her grandchildren $8. If she gave a total of $48, how many grandchildren does Nita have?

3. Helen gave each of her 7 grandchildren an equal amount of money. If she gave a total of $42, how much did each grandchild get?

Throwing a Ball

A ball thrown vertically upward at a speed of $v$ ft/sec rises a distance $d$ feet in $t$ seconds, given by

$$d = 6 + vt - 16t^2$$

Write an equation whose solution is

a. The time it takes a ball thrown at a speed of 88 ft/sec to rise to 20 feet.

b. The speed with which the ball must be thrown to rise 20 feet in 2 seconds.