

Tasks to Standards

Common Core Standard	PA Common Core Standard	PA Assessment Anchor	Task

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.

- 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.
- 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.

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Gifts from Grandma

- Sandra has 6 grandchildren, and she gave each of them \$9. How much money did she give her grandchildren altogether?
- Nita gave each of her grandchildren \$8. If she gave a total of \$48, how many grandchildren does Nita have?
- 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?

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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

- The time it takes a ball thrown at a speed of 88 ft/sec to rise to 20 feet.
- The speed with which the ball must be thrown to rise 20 feet in 2 seconds.

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