

Families of Functions Intro

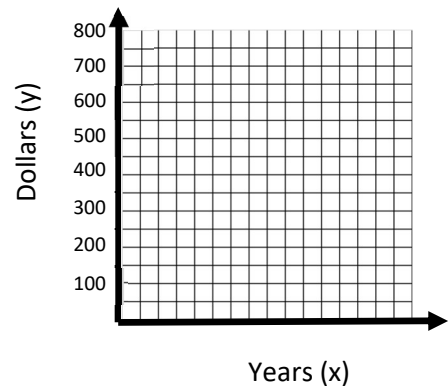
Name: _____

7th Grade Accelerated Math

1. A student invests \$100 and it doubles in value every 5 years. Graph the situation to show the amount of money the student would have after...

- 0 years
- 5 years
- 10 years
- 15 years

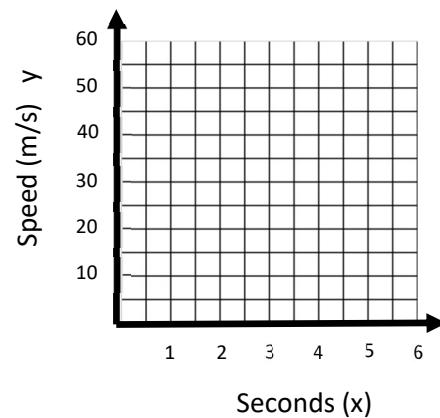
Using your graph, predict how much money this student would have after 8 years.



2. A football is punted with an initial vertical speed of 30 m/s. It slows down until it reaches the top of its path after 3 seconds, and then begins to speed up on its way back down. Because of gravity, the speed changes by 10 m/s every second. Find the speed of the football after...

- 0 seconds
- 1 second
- 2 seconds
- 3 seconds (top of path)
- 4 seconds
- 5 seconds
- 6 seconds

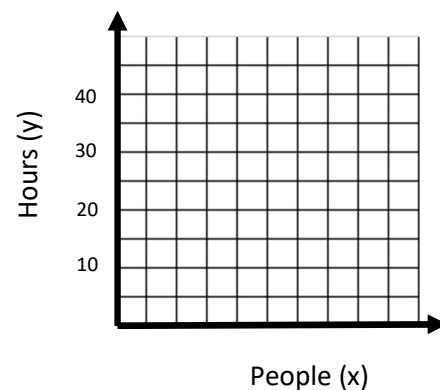
Using your graph, predict the speed of the football after 2.5 seconds



3. It takes 4 people 10 hours to paint the Junior High School. Graph the situation to show the amount of time it would take to complete the job if...

- 1 person was painting
- 2 people were painting
- 4 people were painting
- 8 people were painting

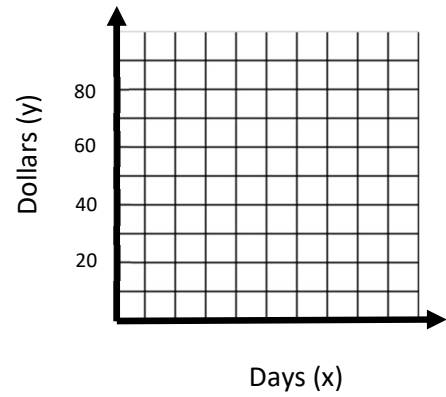
Using your graph, predict how long it would take to complete the job if 5 people were working.



4. A student has \$25 and saves an additional \$5 each day. Graph the situation to show the amount of money the student would have after...

- 0 additional days
- 2 additional days
- 5 additional days
- 9 additional days

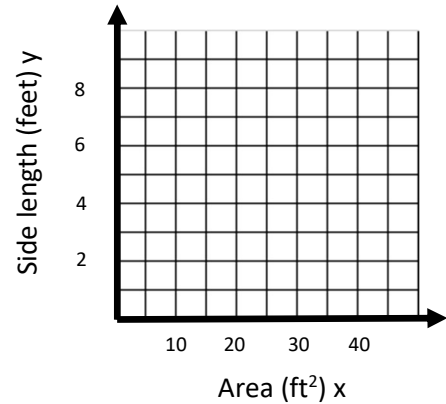
Using your graph, predict how many days it would take to earn \$45.



5. Find the side length of a square with the following areas...

- 0 ft^2
- 4 ft^2
- 16 ft^2
- 36 ft^2
- 49 ft^2

Using your graph, predict the side length of a square with an area of 20 ft^2 .



6. Find the area (length x width) of a rectangle with a perimeter of 100 feet, and a width of...

- 2 feet
- 10 feet
- 20 feet
- 25 feet
- 30 feet
- 40 feet
- 48 feet

Using your graph, predict the width of a rectangle with an area of 350 ft^2 .

