

At an eighth grade picnic, one of the events will be a crab picking contest. Teachers at the picnic will select several students to participate in the contest. A local seafood provider offered to donate the crabs. You have researched crab picking rates and have determined that an 8th grade student can pick crab meat at a rate of one and one-half pounds of meat in thirty minutes, on average.

Use what you know about proportional relationships to display the amount of crab meat an 8th grade student could pick for any length of contest up to sixty minutes. Represent this scenario in as many ways as you know how.

Discussion Questions

1. Which two points on the graph were most critical in your construction of the graph? Explain why.

2. Determine how many pounds of crab meat would be picked at the following intervals:

5 minutes _____

50 minutes _____

20 minutes _____

60 minutes _____

3. Write a proportion to justify your answer for fifty minutes.