

## 6-7 TASKS

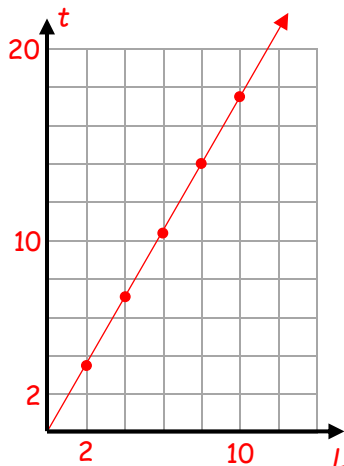
### SOCCER FUNDRAISER

*(Using the MathLinks Rubric) See Activity Routines in the Teacher Portal for directions.*

Joseph is running laps to earn money for his soccer team. His mom kept track of the laps as he ran each day, but accidentally left out some of the work.

1. Complete the table. Assume Joseph ran at a constant rate of speed. Note that each day he ran more laps than the previous day.

Day Number ( $d$ )	1	2	3	4	5	6	7	8
Number of Laps ( $L$ )	2	4	6	8	10	12	14	16
Time in min : sec ( $t$ )	3:30	7:00	10:30	14:00	17:30	21:00	24:30	28:00

<p>2. How many laps did Joseph run in all? <b>72 laps</b></p>	<p>3. In minutes, how long did it take for Joseph to run 1 lap? <b>1 min 45 sec (1:45) = <math>1\frac{3}{4}</math> min</b></p>
<p>4. Write an equation for the amount of time, <math>t</math>, that it takes Joseph to run <math>L</math> laps. (Hint: think about min : sec as minutes only with a fraction.) <b><math>t = 1\frac{3}{4}L</math></b></p>	<p>5. Graph time versus the number of laps run using data from the table.  Be sure to number your axes.</p>
<p>6. If each lap is <math>\frac{1}{4}</math> of a mile, how many miles did Joseph run in all? <b>18 miles</b></p>	<div style="text-align: right;">  </div>
<p>7. How long did it take for Joseph to run 1 mile? <b>7 minutes</b></p>	<p>8. At this pace, how long would it take for Joseph to run 6 miles? Explain using your graph, equation, table, and/or words. <b>1 mile <math>\rightarrow</math> 7 minutes, so 6 miles <math>\rightarrow</math> 42 minutes</b></p>

### PINEAPPLE PARTY!

*(Using the MathLinks Rubric) See Activity Routines in the Teacher Portal for directions.*

You want to buy 20 pounds (20 lbs) of pineapples for a Luau.

1. If a single serving of pineapple is  $\frac{1}{4}$  lb, how many servings can you make with 20 lb of pineapple? **80 servings**
  
2. If Store A sells pineapples at \$1.75 per lb, how much will 20 lb of pineapples cost?  
 **$\$1.75 \times 20 = \$35.00$**
  
3. You see ads for pineapples at four different stores. Choose the best buy(s) for purchasing 20 pounds of pineapple. Show all your work and explain your answer in words.

<p>Store A: pineapples cost \$1.75/lb.</p> <p style="text-align: center;"><b><math>\\$1.75 \times 20 = \\$35.00</math></b></p>	<p>Store B: pineapples come in a 6 lb crate for \$9</p> <p><b>You will need 4 crates to get at least 20 pounds of pineapple.</b></p> <p style="text-align: center;"><b><math>\\$9 \times 4 = \\$36.00</math></b></p> <p><b>(This assumes that a crate cannot be split or broken up.)</b></p>
<p>Store C: pineapples come in a 25 lb case for \$35</p> <p><b>One case is sufficient. It will be \$35.00.</b></p>	<p>Store D: pineapples cost \$1.80 per lb; you can use a coupon to take 5% off the total.</p> <p><b>The cost for 20 lbs is \$36.00.</b> <b>With a 5% discount (\$1.80), the cost is \$34.20.</b></p> <p><b>Since this is the least amount of total dollars, this is the best buy.</b></p>