Name _____ Period _____ Date _____

# 6-7 TASKS
# SOCCER FUNDRAISER

6.NS.AB, 6.RP.A, 6.EE.AB, 6.EE.C; SMP2,3,4,6,7,8

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

Joseph ran 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 |

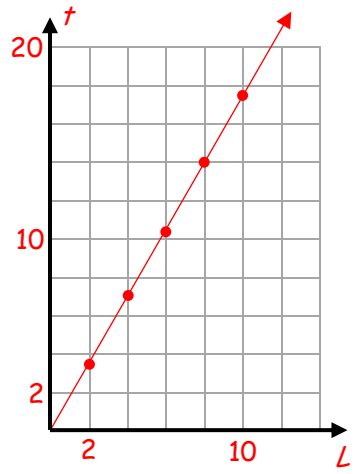
2. How many laps did Joseph run in all?
   72 laps

3. In minutes, how long did it take for Joseph to run 1 lap?
   1 min 45 sec (1:45) = $1\frac{3}{4}$ min

4. Write an equation for the amount of time, *t*, that it takes Joseph to run *L* laps. (Hint: think about min : sec as minutes only with a fraction.)
   $t = 1\frac{3}{4}L$

5. Graph time versus the number of laps run using data from the table.

   Be sure to number your axes.




6. If each lap is $\frac{1}{4}$ of a mile, how many miles did Joseph run in all?
   18 miles

7. How long did it take for Joseph to run 1 mile?
   7 minutes

8. At this pace, how long would it take for Joseph to run 6 miles? Explain using your graph, equation, table, and/or words.
   1 mile → 7 minutes, so 6 miles → 42 minutes

Name _____ Period _____ Date _____

# 6-7 TASKS
# PINEAPPLE PARTY!

6.NS.AB, 6.RP.A, 6.EE.AB; SMP1,2,3,4,6,7,8

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

You want to buy 20 pounds (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. How many pounds of pineapple are needed for 35 servings? 8.75 lbs of pineapple

3. You see ads for pineapples at two different stores. Choose the best buy(s) for purchasing 20 pounds of pineapple. Show all your work and explain your answer in words.

| Store A: pineapples cost $1.75/lb. | Store B: pineapples come in a 6 lb crate for $9 |
|---|---|
| $1.75 × 20 = $35.00 | If a crate cannot be split or broken up:<br>4 crates gets 24 pounds of pineapple (more than 20 lb)<br>$9 × 4 = $36.00<br><br>If a crate can be broken up:<br>$3\frac{1}{3}$ crates -> $9($3\frac{1}{3}$) = $30<br><br>If allowed, this is the fewest amount of total dollars, so this is the best buy. |