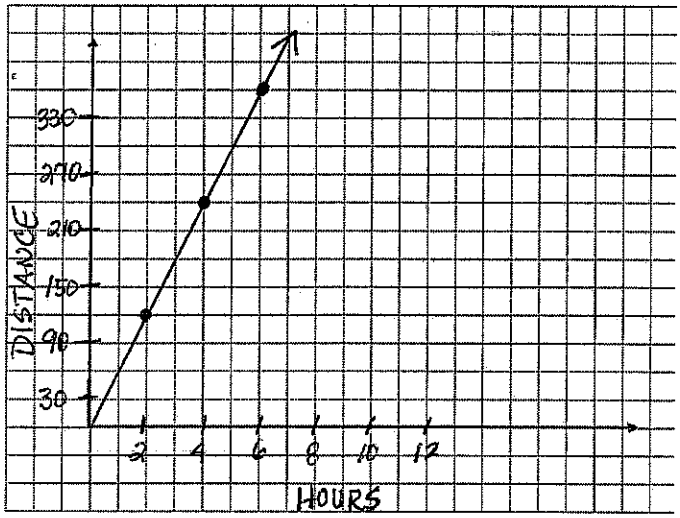
COMPARING PROPORTIONAL RELATIONSHIPS

In problems 1 – 3, choose the proportional relationship with the greater unit rate. Show how you determine your answer.

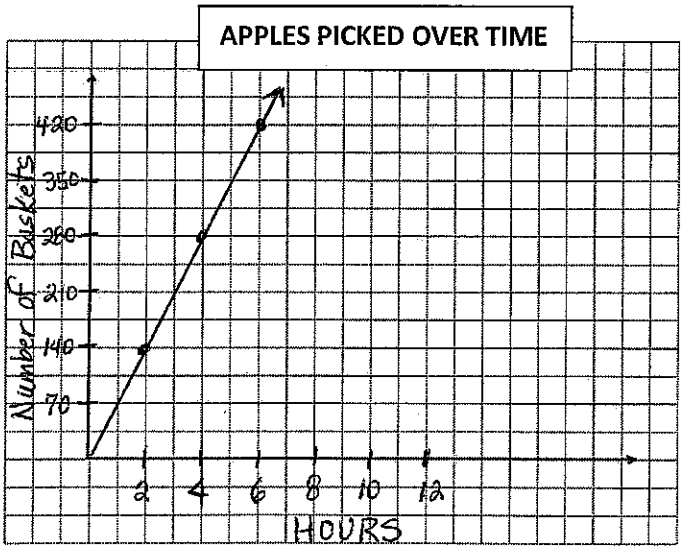
1. The graph shows the speed of a car:



The table shows the top speed of a lion:

HOURS	MILES
3	150
5	250
7	350
9	450

2. *PANHANDLE FRUITS*



STRAWBERRIES PICKED OVER TIME

HOURS	NO. OF BASKETS
2	125
4	250
6	375

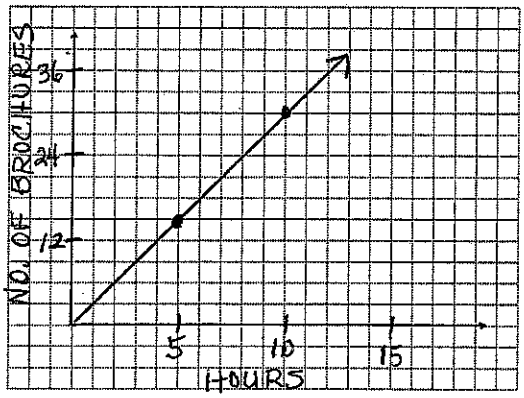
3. The table shows the speed of Carl Edwards race car:

TIME (hours)	0.5	1.5	2.5	3.5
DISTANCE (miles)	73	219	365	511

The equation y = 138x represents the speed of Dale Earnhardt's race car where y is the distance in miles and x is the time in hours.

4. Two Jr. Beta students distributed their political brochures to classmates at a constant rate. Who handed out brochures at a greater rate?

Thomas' Graph

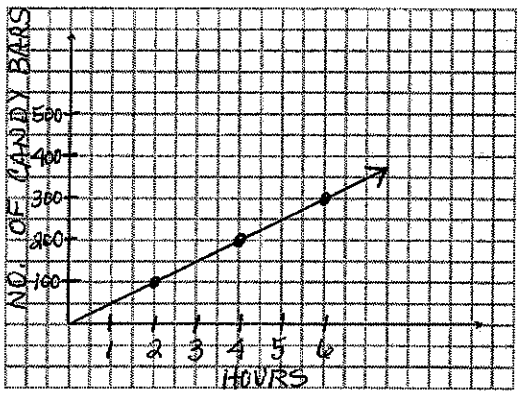


Nathan's Table

HOURS	NO. OF BROCHURES
2	10
3	15
5	25

5. The table and graph show the number of food items sold at the basketball games from the concession stand. Which food sold at a greater rate?

Number of candy bars sold per hour:



Number of bags of popcorn sold per hour:

HOURS	BAGS OF POPCORN
1	30
2	60
3	90

6. The local sporting goods store began receiving bats and gloves in order to prepare for baseball season. Write an equation for each that shows the rate at which the store received the bats and gloves.

No. of Bats	Hours	No. of Gloves
30	2.5	35
54	4.5	63
78	6.5	91
102	8.5	119