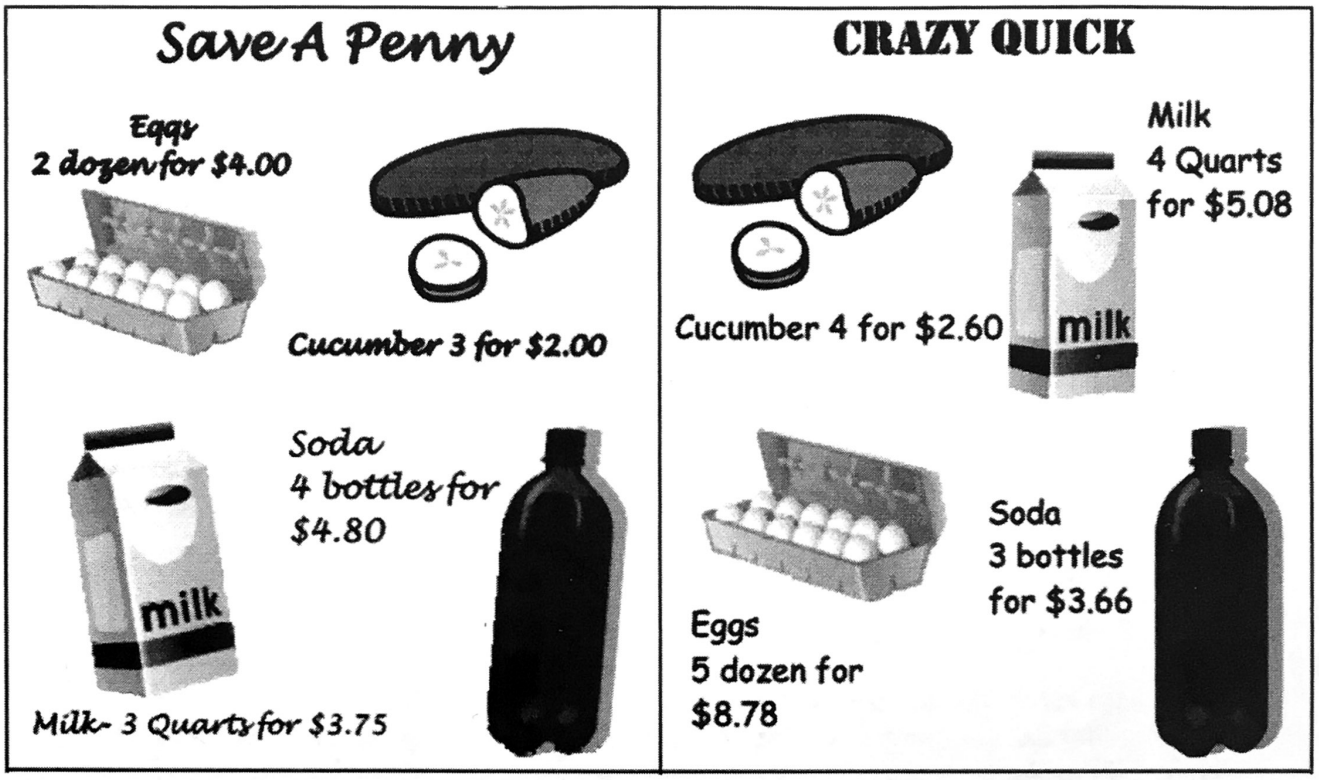
Which One?

Name: KEY



Look at the advertisements above and determine which store has the best deal. Defend your answer by determining the unit cost for each item.

Item	Better Deal	Justification
Eggs	☐ Save A Penny ☒ Crazy Quick	SAP $\frac{\$4}{2} = 2$ CQ $\frac{\$8.78}{5} = 1.76$
Milk	☒ Save A Penny ☐ Crazy Quick	SAP $\frac{\$3.75}{3} = 1.25$ CQ $\frac{\$5.08}{4} = 1.27$
Soda	☒ Save A Penny ☐ Crazy Quick	SAP $\frac{\$4.80}{4} = 1.20$ CQ $\frac{\$3.66}{3} = 1.22$
Cucumber	☐ Save A Penny ☒ Crazy Quick	SAP $\frac{\$2.}{3} = 0.67$ CQ $\frac{\$2.60}{4} = 0.65$

Travel Time

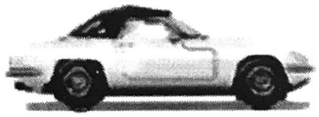
Name: _____

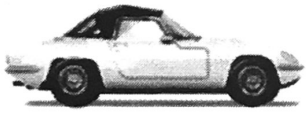
Malik and his family are traveling over the holiday break. Help them determine how fast they were traveling in the problems below.

1. Malik and his parents got on the highway to stop and pick up his sister who is away at college. He looked at the clock at Point A and then again at Point B. The distance from Point A to Point B is 85 miles. Complete the table below to show how many miles they traveled in 15 minute intervals.

1.13•15 1.13•30 1.13•45 1.13•60 1.13•75

Minutes	15 (7:45)	30 (8:00)	45 (8:15)	60 (8:30)	75 (8:45)
Miles	16.95	33.9	50.85	67.8	84.75 or 85





7:30 — 85 miles → 8:45

Point A **Point B**

$\frac{85 \text{ miles}}{75 \text{ min}} = 1.13$ mi. per min

2. They next took a plane to their final destination. It is 927 miles from Columbus, Ohio to Orlando, Florida. If a plane travels at 540 miles per hour, how long is the flight for Malik's family? If the plane left at 9:30 am what time would they be ½ way to the destination?

$\frac{540 \text{ mi}}{1 \text{ hour}} = \frac{927 \text{ mi}}{x}$

$\frac{927}{540} = \frac{540x}{540}$

$x = 1.72$ hours or 103 minutes

$\frac{103}{2} = 51.5$ min. to get half-way so...

10:21:30 AM

3. Malik and his sister Aryika decide to walk around the park by themselves. They both walk at a steady rate. Malik walks 5 feet in the same time that Aryika walks 2 feet. When Malik walks 45 feet, how far will Aryika walk? They meet up after an hour. Aryika had walked 80 feet, how many had Malik walked?

$\frac{\text{Malik}}{\text{Aryika}} = \frac{5}{2} = \frac{45}{x}$

$\frac{5x}{5} = \frac{90}{5}$

$x = 18$ ft

$\frac{5}{2} = \frac{x}{80}$

$400 = 2x$

$x = 200$ ft

Name_____

Unit Rates

Directions: Select the appropriate units for each situation. Then determine the unit rate.

1. Jake travels 250 miles in 5 hours

   Units: ★ miles per hour
   miles per minute
   hours per mile

   Answer: $\frac{250}{5} = 50$ mph

2. A factory manufactures 2,488 parts in 8 hours

   Units: hours per part
   ★ parts per hour
   parts per minute

   Answer: $\frac{2488}{8} = 311$ parts per hour

3. Harry reads 80 pages in 70 minutes.

   Units: minutes per page
   ★ page per minutes
   page per hour

   Answer: $\frac{80}{70} = 1.14$ pages per minute

4. Jacqueline saves $3,500 in 5 years

   Units: ★ dollars per year
   years per dollar
   cents per year

   Answer: $\frac{3500}{5} = \$700$/year

5. Sonya types 8,580 words in 2 hours 45 minutes

   Units: hours per word
   ★ or < words per hour
   words per minute

   Answer: $\frac{8580}{2.75} = 3120$ words per hr $\quad \frac{8580}{165} = 52$ words per min

6. There are 768 calories in 3 servings of pie

   Units: servings per calorie
   ★ calories per serving
   calories per minute

   Answer: $\frac{768}{3} = 256$ calories per serving

7. 12 ounces of peanuts cost $0.95

   Units: ★ or < dollars per ~~peanut~~ ounce
   cents per ~~peanut~~ ounce
   ~~peanut~~ per dollars
   ounces

   $\frac{0.95}{12} = \$0.08$/ounce