

Quiz 3-review answer key

Name \_\_\_\_\_

A group of students were planning a picnic for the 30 members of the school newspaper club. They investigated prices for food and drink at two stores and listed their findings in a chart.

**Food and Drink Prices**

| Item                         | Streamline Market                       |        | Bulky Store               |        |
|------------------------------|---|--------|---------------------------|--------|
|                              | Quantity                                | Cost   | Quantity                  | Cost   |
| Punch Drink                  | Six 20-ounce bottles per package        | \$3.15 | 36-ounce bottle           | \$0.99 |
| Cola                         | Six 12-ounce cans                       | \$1.79 | Twenty-four 12-ounce cans | \$6.99 |
| Ground Beef (for hamburgers) | 1 pound (makes four ¼-pound hamburgers) | \$1.89 | Ten ¼-pound patties       | \$4.49 |
| Hot Dogs                     | 1 pound (10 count)                      | \$1.59 | 2 pounds (20 count)       | \$2.89 |
| Buns                         | 8 count package                         | \$0.89 | 12-count package          | \$1.49 |
| Potato Chips                 | 10.5-ounce package                      | \$0.93 | 40-ounce package          | \$3.45 |

- Which store offers the best buy for punch? Explain how you made your choice.  
 Streamline. If you do cost divided by quantity, you get \$0.02625/oz. At streamline vs. \$0.0275 / oz at Bulky's  
 $\$3.15 / 6 \text{ bottles} / 20 \text{ oz per bottle} = \$0.02625/\text{oz}$ .  $\$0.0275$   
 $\$0.99 / 36 \text{ oz} = \$0.0275$
- Which store offers the best buy for cola? Explain.  
 Bulky's. It is \$1.79 for a six pack vs. \$1.75  
 $\$6.99 / 4$  since there are 4 six packs in a 24 pack.
- How much would it cost to make 30 hamburger patties with ground beef purchased from Streamline?  
 $\$14.18$  for 30 pounds ( $\$1.89 / 4 \times 30$ )  
 $\$15.12$  for 32 pounds if you have to buy them in one pound packages (8 one-pound packages equals 32 pounds x \$1.89 each)
- How much would 30 hamburger patties cost at Bulky?  
 $\$13.47$   
 $\$4.49 \times 3$
- You need to purchase enough buns to make 30 sandwiches. Buns come in packages of 8 or 12, depending on where you shop. Where would you purchase the buns, and how much would they cost? Explain.  
 Streamline would cost \$3.56 for 4 packages of buns and a total of 32 buns  
 Bulky's would cost \$4.47 for 3 packages of buns and a total of 36 buns.
- Which store offers the best buy for hot dogs? Explain.  
 Streamline is 15.9¢ / dog  
 Bulky's is 14.45¢ / dog
- The students organizing the picnic decided to provide the following for each person attending the picnic:
  - one 12-ounce can of cola
  - 1 hot dog with bun
  - 4 ounces of potato chips

The school cafeteria donated condiments (mustard, ketchup, relish, and onions), paper plates, and napkins. The students will buy each item at whichever store has the best price. How much should each person attending the picnic pay in order to cover the food expenses? Show how you determined the amount.

- 29.125¢ -one 12-ounce can of cola
- 14.45 ¢ -1 hot dog
- 11.125¢ -with bun
- 34.5¢ -4 ounces of potato chips
- Total = 90¢-92¢