

**(BB1) Finding the Better Buy**

**Find the unit price and choose the better buy for each comparison.**

1. 3 cans of tomato sauce for \$1.49 or 5 cans of tomato sauce for \$2.39.
  
2. 24 ounces of juice for \$2.25 or 40 ounces of juice for \$3.79
  
3. 4.4 pound of sugar for \$2.35 or 10 pound of sugar for \$4.99.
  
4. A bag of 8 rolls for \$1.89 or a bag of 18 rolls for \$3.79.
  
5. Use unit rate to determine which of the following is the best deal **per ounce** of cereal.
  - ★ \$4.08 for a 16-ounce box of cereal
  - ★ \$4.50 for an 18-ounce box of cereal
  - ★ \$5.39 for a 22-ounce box of cereal
  
6. How much more expensive per ounce is a 15-ounce bottle of mango juice for \$3.45 than a 32-ounce bottle of mango juice for \$5.12?

7. A box of national brand cornflakes is \$2.09 for 12 ounces. A box of store label cornflakes is \$3.09 for 20 ounces.
- Find the unit price for each.
  - Assuming both brands taste equally good, which is the better buy, and why?
  - If you have a 30¢-off coupon for the national brand, which is the better buy, and why?
8. The students are selling cookies at a school fair. Ellie is selling three chocolate chip cookies for \$2.49.
- If you wanted to buy one cookie from Ellie, how much would it cost?
  - How much would it cost to buy 20 of Ellie's cookies?
  - Drew is selling seven chocolate chip cookies for \$5.39. Who offers the better price, Ellie or Drew? Explain why:
9. Bryant worked 5 days this past week. He worked for 4 hours three of the days and for 6 hours the other two days. That week he earned \$350. What is his hourly rate?

### **Rate/Unit Rate Review**

10. Kolin learned 10 recipes to create party dishes. He learned these recipes in two weeks. How many recipes can Kolin learn in 5 weeks?
11. Hannah is going to buy 3 computer tables for \$390. If she pays the same rate, how much would it cost for 8 computer tables?
12. Jenny drove to her mother's house, which is 224 miles away. If it took her 4 hours, what was her average speed (miles per hour)?

**KEY-**

1. 3 cans of tomato sauce for \$1.49 or 5 cans of tomato sauce for \$2.39.

.50/can

.48/can- better price

2. 24 ounces of juice for \$2.25 or 40 ounces of juice for \$3.79

.09/can

.09/can- no better buy, both equal

3. 4.4 pound of sugar for \$2.35 or 10 pound of sugar for \$4.99.

.53/pound

.50/pound- better buy

4. A bag of 8 rolls for \$1.89 or a bag of 18 rolls for \$3.79.

.24/roll

.21/roll- better buy

5. Use unit rate to determine which of the following is the best deal **per ounce** of cereal.

★ \$4.08 for a 16-ounce box of cereal .26/oz.

★ \$4.50 for an 18-ounce box of cereal .25/oz.- best deal

★ \$5.39 for a 22-ounce box of cereal .25/oz.- best deal

6. How much more expensive per ounce is a 15-ounce bottle of mango juice for \$3.45 than a 32-ounce bottle of mango juice for \$5.12?

15 oz.=.23/oz. and 32 oz. = .16/oz.

So the 32-ounce bottle is .07/oz. More expensive.

7. A box of national brand cornflakes is \$2.09 for 12 ounces. A box of store label cornflakes is \$3.09 for 20 ounces.

a. Find the unit price for each.

National Brand= .17/oz.      Store Label Brand= .15/oz.

b. Assuming both brands taste equally good, which is the better buy, and why?

The larger box is cheaper per ounce.

c. If you have a 30¢-off coupon for the national brand, which is the better buy, and why?

$\$2.09 - .30 = \$1.79$  for 12 ounces. Now divide  $\$1.79/12 = .15/oz$ . They would both be the same so there would be no better deal if they both taste the same.

8. The students are selling cookies at a school fair. Ellie is selling three chocolate chip cookies for \$2.49.

a. If you wanted to buy one cookie from Ellie, how much would it cost?

.83/cookie

b. How much would it cost to buy 20 of Ellie's cookies?

$.83 \cdot 20 = \$16.60$

c. Drew is selling seven chocolate chip cookies for \$5.39. Who offers the better price, Ellie or Drew? Explain why:

Ellie's= .83/cookie

Drew's= .77/cookie- better deal because it's cheaper per cookie.

9. Bryant worked 5 days this past week. He worked for 4 hours three of the days and for 6 hours the other two days. That week he earned \$350. What is his hourly rate?

$4 \cdot 3 = 12$  and  $6 \cdot 2 = 12$  totalling 24 hours.  $350/24 = \$14.58/hr$ .

OR  $350/10 = \$35/hour$

### Rate/Unit Rate Review

10. Kolin learned 10 recipes to create party dishes. He learned these recipes in two weeks. How many recipes can Kolin learn in 5 weeks?

$10/2 = 5$  recipes per week  $\cdot 5$  weeks = 25 recipes or use equivalent ratios

$$\frac{\text{recipes}}{\text{weeks}} \frac{10}{2} = \frac{x=25 \text{ recipes}}{5}$$

11. Hannah is going to buy 3 computer tables for \$390. If she pays the same rate, how much would it cost for 8 computer tables?

$$390/3 = \$130/\text{table} \quad 130 \cdot 8 = \$1040 \quad \text{OR}$$

$$\frac{\text{price}}{\text{tables}} \quad \frac{390}{3} = \frac{x = \$1040}{8}$$

12. Jenny drove to her mother's house, which is 224 miles away. If it took her 4 hours, what was her average speed (miles per hour)?

$$224/4 = 56 \text{ miles per hour} \quad \text{OR}$$

$$\frac{\text{miles}}{\text{hour}} \quad \frac{224}{4} = \frac{x = 56}{1}$$