

HW: Worksheet/10-17

Warm up:

Find the unit price for each item. $\frac{7}{2} = \$3.50$

Blueberries

$$\frac{3.50}{12}$$

$$\approx \$0.29/oz$$



mix or
match

2 \$7
FOR

Mango

$$\frac{3.50}{10}$$

$$= \$0.35/oz$$



LIMIT 4 PER VARIETY

**Seal the Seasons
Blueberries**

12-oz. pkg., Locally Grown Berry Blend or

**Wholesome Pantry
Organic Frozen Fruits**

10-oz. pkg., Any Variety

Which package of candy is the best deal?

Package	Weight (oz)	Price (\$)	Price per Ounce
A	7	1.19	$\frac{1.19}{7} = \$0.17/\text{oz}$
B	9	1.35	$\frac{1.35}{9} = \$0.15/\text{oz}$
C	$12\frac{1}{2} = 12.5$	2.00	$\frac{2}{12.5} = \$0.16/\text{oz}$

Kari ran $500\frac{1}{2}$ m in 35s. Amy ran $652\frac{1}{2}$ m in 45s.

Which runner ran at a faster rate?

$$K \rightarrow \frac{500.5}{35} = 14.3 \text{ m/s}$$

$$A \rightarrow \frac{652.5}{45} = 14.5 \text{ m/s}$$

Amy

You bought 4 pounds of cheese and paid \$23.40. What was the unit price?

$$\frac{\$23.40}{4 \text{ lb}} = \$5.85/\text{lb}$$

1. The Edwards family drank $2\frac{3}{4}$ gallons of juice in $2\frac{1}{2}$ days. How much juice does the family drink per day?
2. Mrs. Granger used $4\frac{1}{2}$ feet of plastic wrap in 3 days to wrap her children's lunch sandwiches. How much plastic wrap does she use per day?
3. Jacob can run $8\frac{1}{8}$ miles in $3\frac{1}{4}$ hours. At that rate, how far can he run in 1 hour?
4. The Wu family eats $2\frac{1}{2}$ loaves of bread in $4\frac{1}{2}$ days. At that rate, how much bread does the family eat per day?
5. Alexis bought $6\frac{1}{2}$ yards of fabric for \$25.48. How much did the fabric cost per yard?

1. The Edwards family drank $2\frac{3}{4}$ gallons of juice in $2\frac{1}{2}$ days. How much juice does the family drink per day?

$$2\frac{3}{4} \div 2\frac{1}{2}$$

$$\frac{11}{4} \div \frac{5}{2}$$

$$\frac{11}{4 \cdot 2} \cdot \frac{2}{5} = \frac{11}{10} = 1\frac{1}{10} \text{ gal/day}$$

2. Mrs. Granger used $4\frac{1}{2}$ feet of plastic wrap in 3 days to wrap her children's lunch sandwiches. How much plastic wrap does she use per day?

$$\begin{aligned} &4\frac{1}{2} \div \frac{3}{1} \\ &\frac{9}{2} \div \frac{3}{1} \\ &\overset{3}{\cancel{9}} \cdot \frac{1}{\cancel{3}} = \frac{3}{2} = 1\frac{1}{2} \text{ ft/day} \end{aligned}$$

3. Jacob can run $8\frac{1}{8}$ miles in $3\frac{1}{4}$ hours. At that rate, how far can he run in 1 hour?

$$\frac{65}{8} \div \frac{13}{4}$$
$$\overset{5}{\cancel{\frac{65}{8}}} \cdot \frac{\cancel{4}^1}{\cancel{13}_1} = \frac{5}{2} = 2\frac{1}{2} \text{ mi/h}$$

4. The Wu family eats $2\frac{1}{2}$ loaves of bread in $4\frac{1}{2}$ days. At that rate, how much bread does the family eat per day?

$$2\frac{1}{2} \div 4\frac{1}{2}$$

$$\frac{5}{2} \div \frac{9}{2}$$

$$\frac{5}{\cancel{2}} \cdot \frac{\cancel{2}}{9} = \frac{5}{9} \text{ loaf/day}$$

5. Alexis bought $6\frac{1}{2}$ yards of fabric for \$25.48. How much did the fabric cost per yard?

6.5

$$\frac{25.48}{6.5} = \$3.92/\text{yd}$$



