

Product Testing

Some publications ask their readers to test many different kinds of products. The results of the tests are then published to help readers make wise buying decisions. One example is the former *Consumer Reports for Kids Online*. It featured articles previously published in *Zillions*, a child's version of *Consumer Reports*. In one test, 99 readers field tested several backpack models. The readers considered fit, back friendliness, and comfort as they tried to decide which brand was the best buy. In another test, a team of young people compared 40 brands of jeans in their search for a brand that would not shrink in length.

When a reader wrote to complain about a board game she bought, the staff sent board games to young people in every part of the country. Testers were asked to play each game several times and then to report what they liked and disliked about the game.

	f you were testing a board game, what are some of the features you would look for?
a de chia	
_	
_	
	When readers of the magazine tested backpacks, they considered fit, back friendliness, and
(comfort in determining the best one. Which of these factors is the most important to you? When the composition is the most important to you?
_	
_	
	What is a consumer ? Be prepared to share your definition with the class.
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12.4

Converting Units of Measure



1 ton
$$(T) = 2,000$$
 pounds (lb)

Complete the conversions between ounces, pounds, and tons.

Write the information you needed to make the conversion.

$$1 lb = 16 oz$$

2.
$$\frac{1}{2}$$
 lb = _____ oz

5.
$$6\frac{1}{4}$$
 T = _____ lb

10.
$$1\frac{1}{4}$$
 lb = _____ oz

Complete the table.

11.

Ounces	Pounds	Tons
	10,000	
		9.5
16,000		



Converting Units of Measure continued



12. Record measurement equivalents in the two-column tables below.

a.

Feet	Inches
::. 1 ;	12
- 2	
3	
4	
5	

b.

Liters	Milliliters
1	
	wije stre

Minutes	Seconds
1	A. M. T. R. C. P. C.
sd fe rionrid	50,000-1-2
1	

Find the equivalent measures.

d.
$$3.25 L =$$
_____ mL

e.
$$5\frac{1}{2}$$
 kg = _____ g

f.
$$8\frac{1}{2}$$
 hr = _____ min

g. What do you notice when you convert from a larger unit to a smaller unit (such as from L to mL)?

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g. What do you notice when you convert from a smaller unit to a larger unit (such as from mL to L)?



Unit Prices



Solve the unit price problems below. Complete the tables if it is helpful to do so.

1. A 12-ounce can of fruit juice costs 60 cents. The unit price is _____ per ounce.

Dollars				0.60
Ounces	1	3	6	12

2. A 4-pound bunch of bananas costs \$1.16. The unit price is _____ per pound.

Dollars	7			1.16
Pounds	1	2	3	en met 4

3. A 5-pound bag of apples costs \$1.90. The unit price is _____ per pound.

Dollars	- -				1.90
Pounds	1 _{diso}	2	3	9_4	5

4. Three pounds of salmon cost \$21.00.

a. The unit price is _____ per pound.

b. What is the cost of 7 pounds of salmon?

c. What is the cost of $9\frac{1}{2}$ pounds of salmon?

Dollars	American de la company de		21.00			
David.			/ 0	4	7	0.1
Pounds	1	2	3	4	/	$9{2}$

Try This

5. Energy granola bars come in packages of 25 and cost \$3.50 per package. Super granola bars come in packages of 30 and cost \$3.60 per package. Which is the better buy? Explain.

study Link 12+4

Unit Prices



Solve the unit price problems below. Complete the tables if it is helpful to do so.

SRB 47

1. A 12-oz bag of pretzels costs 96 cents. The unit price is ______ per ounce.

Dollars			0.96
Ounces	3	9	12

2. A package of 3 rolls of paper towels costs \$2.07. The unit price is _______ per roll.

Dollars			2.07
Rolls	1	2	3

3. A 4-liter bottle of water costs \$1.40. The unit price is _____ per liter

Dollars				1.40
Liters	1	2	3	4

4. Choose 4 items from newspaper ads. In the table below, record the name, price, and quantity of each item. Leave the Unit Price column blank.

Item	Quantity	Price	Unit Price
Golden Sun Raisins	24 ounces	\$2.99	
Age 2		1 p 3	
	200 mm m		

Practice

Name the factor pairs for each number.

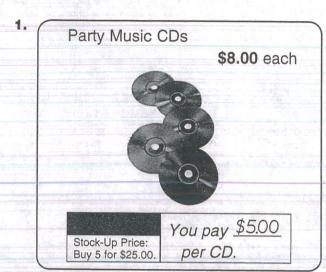
5. 12 ____

6. 50 _

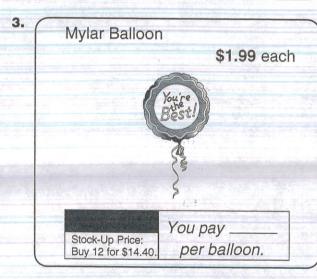
Stock-Up Sale



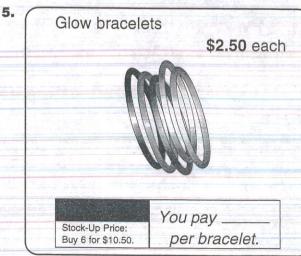
Party Town is having a summer stock-up sale. The ad below shows the original price of each item and the sale price if you buy a certain number of items. Use bills and coins to help you find the stock-up price per item.

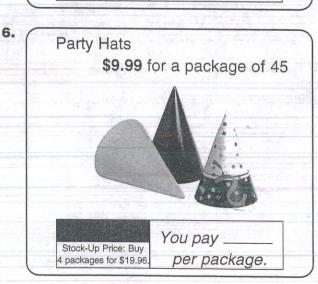












LESSON 12.4

Math Boxes



1. a. Complete the table.

Number of Inches		72			540
Number of Yards	1	2	9	12	

b. How many inches are in 329 yards?

inches



2. Complete.



3. Find the solution of each open sentence.

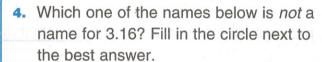
a.
$$t + 30 = -120$$
 t

b.
$$75 + n = 20$$

c.
$$16 + b = 0$$

c.
$$16 + b = 0$$
 $b =$

d.
$$c + (-61) = -97$$
 $c =$

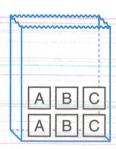


$$(A)$$
 4.8 $-$ 1.64

$$\bigcirc$$
 2.5 + 0.66



5. Add blocks to the bag so it is likely that Arjan will pick a C block without looking.





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6. Calculate.

a. 10% of 520 = _____

