

Everyday Mathematics

Grade 4

Unit 12

Name: _____

1. The Devis family drove 295 miles to visit relatives. It took 5 hours. At that rate, how many miles had the Devises driven in 3 hours? Fill in the table.

Hours			3		5
Miles					295

-
2. Roberto earns \$3 per hour babysitting. How much does he earn in 5 hours?
You may create a rate table to help you.

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3. Shawna works 3 hours a day, 5 days a week. She earns \$48.00 per day.
a. How much does she earn per hour?
b. How much does she earn per week?

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4. List the factor pairs of 12.

_____ and _____, _____ and _____, _____ and _____

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5. Name all the factors of 28.

-
6. Name all the factors of 32.

-
7. Name all the factors of 84.

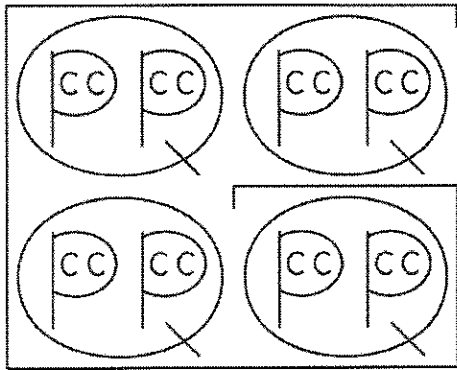
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8. Name all the factors of 66.

9. Compare. Write $<$, $>$, or $=$ for the \bigcirc .

$$-45 \bigcirc -65$$

10. Write the following set of numbers in order from largest to smallest.
 $0.09, -1.3, -0.001, -2.3, 1.2, 0.01$

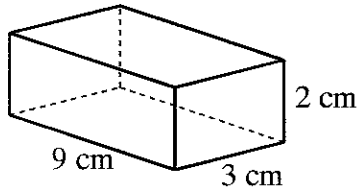
11. Use the diagram to help you solve the problems.



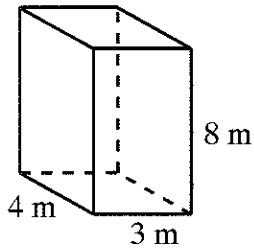
- $\underline{\hspace{1cm}} c = 2 \text{ gal}$
- $22 \text{ qt} = \underline{\hspace{1cm}} \text{ gal } \underline{\hspace{1cm}} \text{ qt}$
- $10 c = \underline{\hspace{1cm}} \text{ qt } \underline{\hspace{1cm}} c$
- $15 \text{ pt} = \underline{\hspace{1cm}} \text{ qt } \underline{\hspace{1cm}} \text{ pt}$
- $3 \text{ qt} = \underline{\hspace{1cm}} c$

12. Calculate the volume of each rectangular prism.

a.



b.



13. Solve the open sentence.

$$642.123 + 123.230 = d$$

14. Find the solution of each open sentence.

$$26.69 = 12.15 + x$$

15. Solve the open sentence.

$$94.658 - 92.801 = d$$

16. Solve.

$$m - 26.6 = 27.1$$

17. Write the set of fractions in order from smallest to largest.

$$-\frac{1}{14}, \frac{4}{14}, \frac{2}{14}, -\frac{7}{14}, \frac{9}{14}$$

Order the fractions from smallest to largest.

18. $\frac{1}{6}, -\frac{3}{4}, \frac{14}{24}, -\frac{12}{19}, \frac{5}{8}$

19. $-\frac{3}{9}, -\frac{4}{32}, \frac{9}{11}, \frac{5}{7}, \frac{2}{14}$

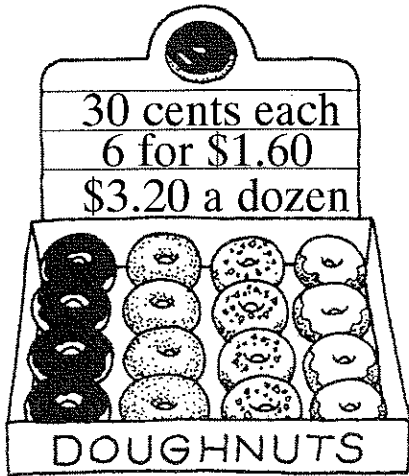
20. $\frac{2}{8}, \frac{13}{26}, -\frac{5}{10}, \frac{2}{6}, -\frac{11}{33}$

21. $\frac{3}{18}, -\frac{9}{81}, -\frac{4}{16}, \frac{1}{5}, \frac{15}{45}$

22. There are three schools in Somertown. Each school has 239 students. A friend estimates there are 1,200 students at all three schools. Is this reasonable? Explain.

23. Katie is buying a package of erasers at a store. The store sells packages of 23 erasers for \$2.30 and 28 erasers for \$1.96. Which package offers the better buy? Explain.

24. Use the sign below to solve the problem. Explain how you found your answer.



Joey goes to Doreen's Delicious Doughnuts to buy doughnuts for the class party. What is the least amount of money he will have to pay for 50 doughnuts? Explain.

[1] 177 miles;

Hours	1	2	3	4	5
Miles	59	118	177	236	295

[2] \$15.00

a. \$16.00 per hour
 [3] b. \$240.00 per week

[4] 1 and 12, 2 and 6, 3 and 4

[5] 1, 2, 4, 7, 14, and 28

[6] 1, 2, 4, 8, 16, and 32

[7] 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, and 84

[8] 1, 2, 3, 6, 11, 22, 33, and 66

[9] >

[10] 1.2, 0.09, 0.01, -0.001, -1.3, -2.3

a. 32 c
 b. 5 gal 2 qt
 c. 2 qt 2c
 d. 7 qt 1 pt
 [11] e. 12 c

a. Volume = 54 cm³
 [12] b. Volume = 96 m³

[13] 765.353

[14] Solution: 14.54

[15] 1.857

[16] 53.7

[17] $-\frac{7}{14}, -\frac{1}{14}, \frac{2}{14}, \frac{4}{14}, \frac{9}{14}$

[18] $-\frac{3}{4}, -\frac{12}{19}, \frac{1}{6}, \frac{14}{24}, \frac{5}{8}$

[19] $-\frac{3}{9}, -\frac{4}{32}, \frac{2}{14}, \frac{5}{7}, \frac{9}{11}$

[20] $-\frac{5}{10}, -\frac{11}{33}, \frac{2}{8}, \frac{2}{6}, \frac{13}{26}$

[21] $-\frac{4}{16}, -\frac{9}{81}, \frac{3}{18}, \frac{1}{5}, \frac{15}{45}$

[22] No. Explanation: 239 is about 200, and $200 * 3 = 600$. 1,200 is twice as much as 600.

The package of 28 erasers; Sample answer: The package of 23 erasers costs 10¢ per
[23] eraser, and the package of 28 erasers costs 7¢ per eraser.

\$13.40; Sample answer: If Joey buys four dozen at \$3.20 per dozen and 2 for 30 cents
[24] each, the total cost will be $(4 * \$3.20) + 2 * 30 \text{ cents} = \13.40 .

1. Raheem and India volunteered to buy cookies for the class party. They wanted at least 4 different kind of cookies, and they wanted to spend as little as possible. They decided that 3 pounds of cookies would be enough. When they went to the store, they saw these prices for packages of cookies:

mint creams.....	\$1.89/8 oz	chocolate chip.....	\$2.97/lb
fudge marshmallow	\$2.19/lb	oatmeal.....	\$1.79/10 oz
sugar wafers.....	\$3.29/18 oz	windmill.....	\$1.35/11 oz
vanilla wafers	\$1.29/12 oz	ginger snaps.....	\$1.99/17 oz

- a. What 4 packages of cookies would you recommend they buy so that they have a total of about 3 pounds and they spend as little money as possible? Show all of your work, and explain how you found your answer. *Hint:* 1 pound = 16 ounces
- b. If they follow your recommendations, how much money will they spend on cookies? Show your work.
- c. About what is the cost per pound of the 3 pounds of cookies you selected? Show your work.

Sample answer:

a. I would tell them to buy vanilla wafers, windmill cookies, ginger snaps, and mint creams. Vanilla wafers, windmills, and ginger snaps have the cheapest unit prices and they add up to 40 ounces. Then they will need 8 more ounces to make three pounds, and mint creams are the cheapest 8-ounce package of cookies.

b. They will spend $\$1.29 + \$1.35 + \$1.99 + \$1.89 = \$6.52$.

[1] **c.** $\$6.52$ divided by 3 pounds is about $\$2.17$ per pound.
