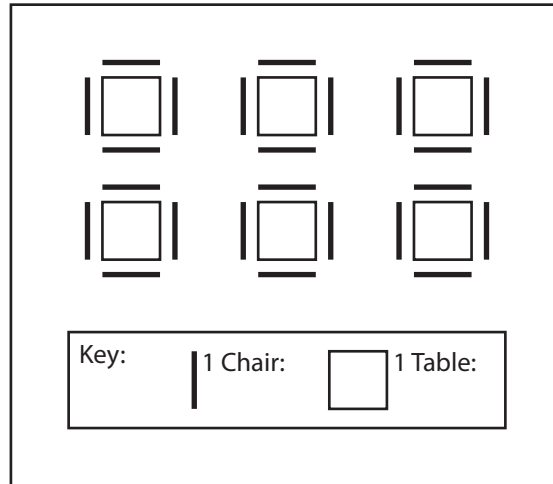




Which Operation? page 1 of 3

- 1 Josie was planning a party. She drew a sketch of how she wanted to set up the chairs and tables. Which equation best represents the number of chairs she sketched?

$4 + 6 = 10$
 $6 \times 4 = 24$
 $42 - 4 = 20$
 $6 \times 6 = 36$



- 2 There were 24 kids at Josie's party (including her), and each of them ate 3 pieces of pizza. Which expression shows how many pieces of pizza they ate in all?

$3 + 24$
 $24 - 3$
 $24 \div 3$
 24×3

- 3 At the end of the party, the kids broke open the piñata. When they scrambled for the candy, Gabe got 5 pieces. Maria got 3 times as many pieces as Gabe. Which of the numbers described below shows how many pieces of candy Maria got?

The sum of 5 and 3
 The difference between 5 and 3
 The product of 5 and 3
 The quotient of 5 and 3

- 4 Josie has 5 gallons of fruit punch. This table shows how many cups there are in different numbers of gallons.

Gallons	Cups
1	16
2	32
3	48

What is one way to figure out how many cups of punch that is?

Add 16 to 5
 Multiply 5 by 16
 Divide 16 by 5
 Subtract 5 from 16

(continued on next page)

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Which Operation? page 2 of 3

5 Draw a line to match each story problem below to the equation that best shows how to solve the problem. Then complete each equation. You can use the Base Ten Grid Paper on the next page if you like.

a Josie's mom bought 4 packages of mini-candy bars to put in the piñata. There were 28 in each package. How many mini-candy bars were there in all? $28 + 4 = \underline{\quad}$

b Josie got 28 napkins out of the package but then realized that she could put 4 of them away. How many did she set out on the tables? $28 - 4 = \underline{\quad}$

c Josie's brother blew up 28 balloons for the party and had enough to put 4 at each table. How many tables were there? $28 \times 4 = \underline{\quad}$

d Josie had \$28 in her savings account. Josie earned \$10 helping with chores. Josie spent \$6 right away, but she put the other \$4 in her account. How much money did she have in her savings account then? $28 \div 4 = \underline{\quad}$

6 Write a story problem for each of the two equations below, and then solve your own problems. Use the Base Ten Grid Paper on the next page if you like.

Equations	Story Problems	Solution
a $16 \times 8 = \underline{\quad}$		
b $16 \div 8 = \underline{\quad}$		

7 CHALLENGE Josie's mom bought 9 pizzas for the party. How will she need to cut them in order to have enough pieces for the party? (See Problem 2 for more information.) Use numbers, sketches, or words to show your work on another sheet of paper.

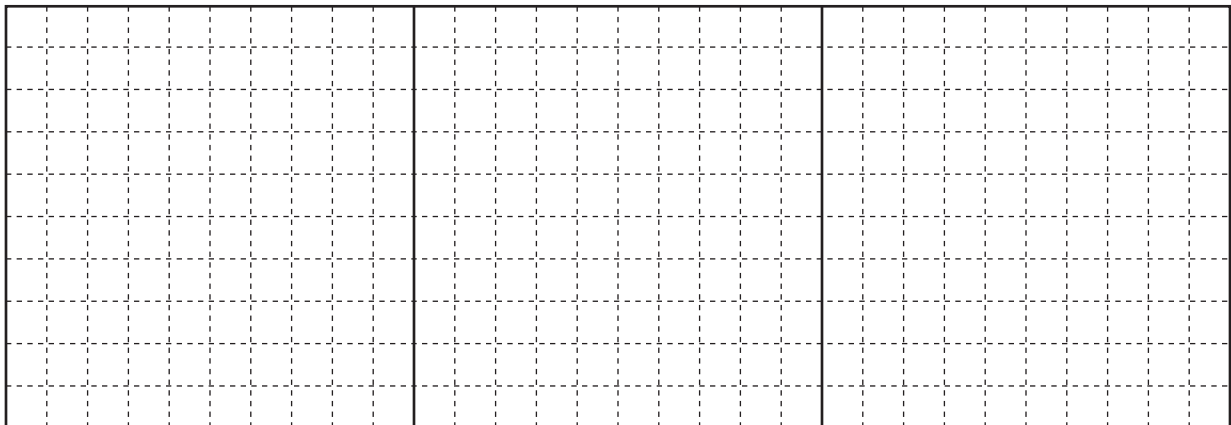
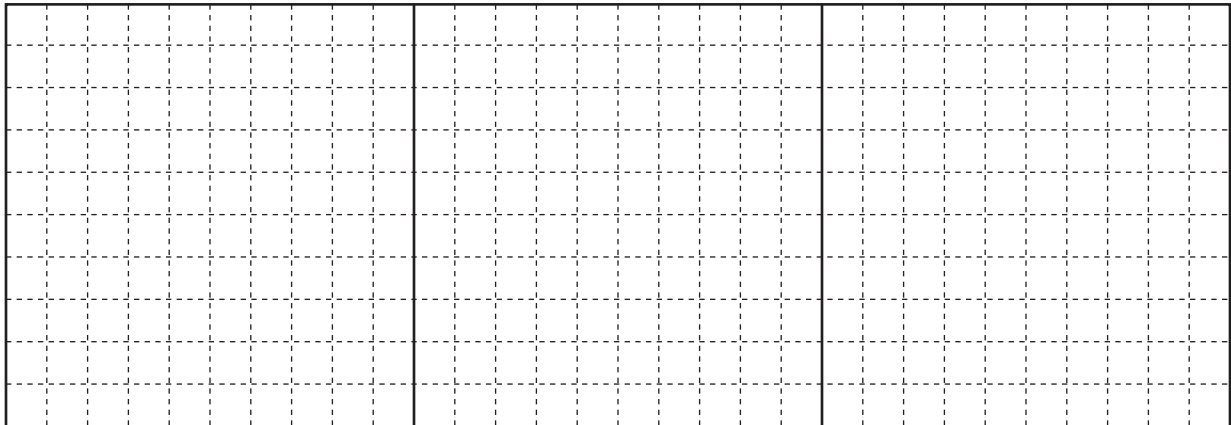
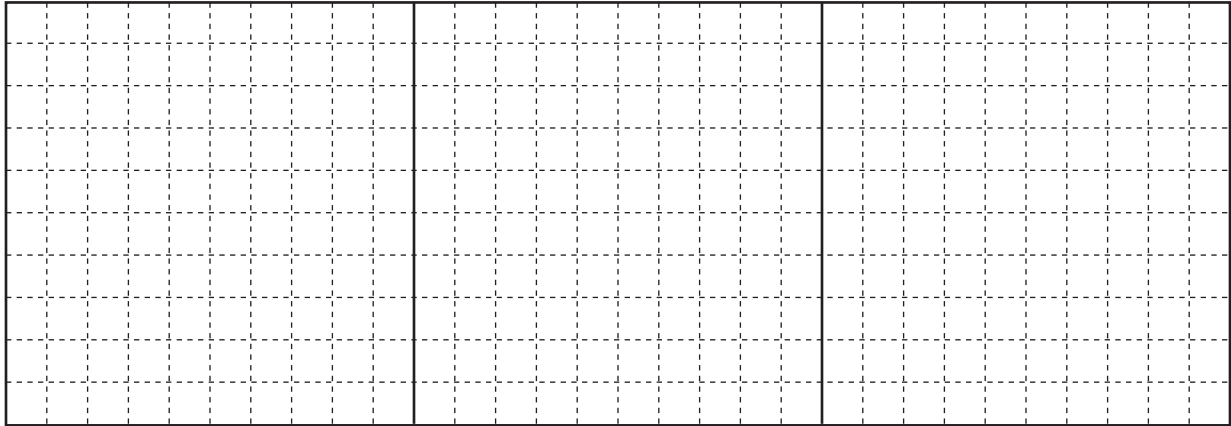
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Which Operation? page 3 of 3




Base Ten Grid Paper



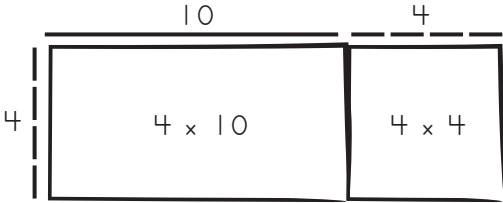



Coins & Arrays page 1 of 2

1 Write a multiplication equation to show how much each group of coins is worth.

Coin	Group of Coins	Multiplication Equation
	ex 5 nickels	$5 \times 5¢ = 25¢$
	a 10 nickels	
	b 15 nickels	
	c 10 dimes	
	d 20 dimes	
	e 30 dimes	
	f 8 quarters	
	g 12 quarters	
	h 17 quarters	

2 Label each array frame below. Then fill it in with labeled rectangles. Write an equation to show how you got the total, and then write a multiplication equation to match the array. (Cut out the base ten area pieces if you want to build the arrays.)



	Labeled Array Frame & Rectangles	Addition Equation	Multiplication Equation
ex		$40 + 16 = 56$	$4 \times 14 = 56$
a			

(continued on next page)

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Coins & Arrays page 2 of 2

Labeled Array Frame & Rectangles	Addition Equation	Multiplication Equation
<p>b</p> 		
<p>c</p> 		

3 CHALLENGE Raina said, “How many different ways are there to make 30¢ using pennies, nickels, dimes, or quarters?”

a What is this problem asking you to do?

b Check the strategy you plan to use (check one):

guess and check

make a table or an organized list

draw a diagram

other

c Show your work below.

d There are _____ different ways to make 30¢ using pennies, nickels, dimes, or quarters.

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**Multiplication Strategies** page 1 of 2**1** Solve these problems in your head. Fill in the blanks.

$$\begin{array}{r} 10 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ \times 3 \\ \hline 120 \end{array}$$

$$\begin{array}{r} 50 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 70 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 80 \\ \times \square \\ \hline 240 \end{array}$$

$$\begin{array}{r} 90 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 100 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1,000 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10,000 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ \times 3 \\ \hline 300,000 \end{array}$$

$$\begin{array}{r} 1,000,000 \\ \times 3 \\ \hline \end{array}$$

2 Explain any strategies you used to make it easier to figure out the answers to the problems above.**3** Solve these problems in your head. Fill in the blanks.

$$\begin{array}{r} 10 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 70 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 80 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 90 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 100 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 1,000 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 70 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 80 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 400 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 300 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 500 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 600 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 200 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 700 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 800 \\ \times 5 \\ \hline \end{array}$$

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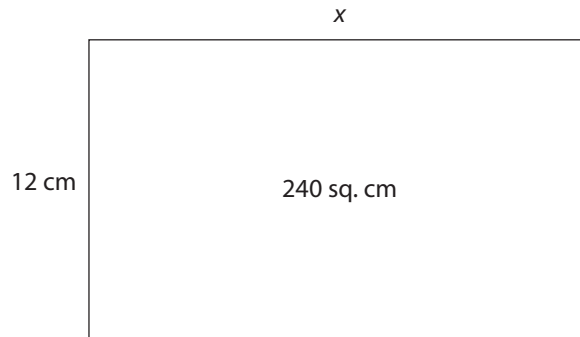
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Multiplication Strategies page 2 of 2

4 Look at the rectangle below. If the area is 240 square centimeters and one side is 12 centimeters, what is the length of the other side?

- Show your work.
- Write the answer on the line provided below. Be sure to label it with the correct units.



The length of the side labeled x is _____

5 Sonia measured the cover of the library book she was reading. The length was 10 inches and the width was 5 inches. Which equation below represents how to find the area of her book's cover? Fill in the bubble to show.

- $10 \div 5 = a$
 $10 - 5 = a$
 $10 \times 5 = a$
 $10 + 5 = a$

6 Fill in the ratio table for 31.

1	2	20		30	10	5	
31			93				1550

7 CHALLENGE

900	400	800	600	700	800	800
$\times 9$	$\times 12$	$\times 9$	$\times 12$	$\times 11$	$\times 8$	$\times 12$