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## Writing and Defining Expressions

1.	Write an expression for each problem. Define a variable if you use one.	Solution:	
	a. A piece of ribbon is 20 cm long. Emerald cut it into 4 pieces to do her 4 sister's hair	a. b.	
	b. Emily bought some ice cream cones which cost \$24. She paid \$30.	c.	
	c. Margaret has 15 yards of fabric and she is making dresses for $p$	d.	
	dolls.	e.	
	d. In Megan's sewing kit, there are 5 bundles of thread. Each bundle has <i>t</i> feet of thread.	f. g.	
	e. The beach is 18 miles farther than the park <i>p</i> .		
	f. Olivia had 14 needles in her sewing kit but she lost <i>n</i> needles.		
	g. After a \$10 discount, Emma paid $m$ for her new sewing machine.		
2.	Define a variable and explain what it represents. Use the variable to write an expression for each problem.	Solution:	
	a. A roll of ribbon is <i>g</i> inches long. There are 6 colors of ribbons. Amelia used 2 inches from each roll.	a.	
	b. Kim bought 2 bottles of water, 500ml each. After Kim and her sister drank <i>z</i> ml from the bottles, they have a total of 350ml of water left.	b.	
	c. Angela shared a cab with her friends. They evenly divided the $$j$$ fare among the three of them. Angel also paid a \$5 tip. How much	c.	
	did Angela pay in total?	d.	
	d. Sunny earns \$12 per hour delivering cakes. She worked for <i>t</i> hours this week. Unfortunately, she was charged \$15 for a late delivery	e.	
	on Tuesday.		
	e. Sarah received \$55 for her birthday. She used some of that money to buy 3 shirts priced \$m each.		
3.	Four friends evenly divided up an <i>n</i> -slice pizza. One of the friends, Harris, ate 1 fewer slice than he receive. How many slices of pizza did Harris eat?		
1	A large pizza costs \$18. Each topping you add on costs \$1.50.		
4.	How much would it cost to get a large cheese pizza with <i>c</i> toppings added?	nuch would it cost to get a large cheese pizza with $c$ Solution:	
5.	Liam had \$250. Then, he and his classmates bought a present for their teacher, evenly splitting the \$p\$ cost among the 24 of	tion:	
	them. How much money does Liam have left?		

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Answer Key

1.

a. 
$$\frac{20}{4}$$

b. 
$$30 - 24$$

c. 
$$\frac{15}{p}$$
 where p = number of dolls

d. 
$$5 \times t$$
 where  $t = length of each thread$ 

e. 
$$18 + p$$
 where  $p = distance$  to the park

f. 
$$14 - n$$
 where  $n = number of lost needles$ 

g. 
$$10 + m$$
 where  $m = original price of sewing machine$ 

2.

a. 
$$6 \times (g-2)$$
 where  $g = length$  for each color of ribbons

b. 
$$(2 \times 500) - z$$
 where  $z =$  amount of water Kim and her sister drank

c. 
$$\frac{j}{3}$$
 + 5 where j = total amount of fare

d. 
$$12t - 15$$
 where t = total hours Sunny worked for the week

e. 
$$55 - 3m$$
 where m = price of each shirt

3. 
$$\frac{n}{4} - 1$$

4. 
$$18 + 1.50c$$

5. 
$$250 - \frac{p}{24}$$