

Smiley Face Math  
Grade 4, Worksheet X

Name: \_\_\_\_\_

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1. Jack is on vacation with his family in Orlando. He brought 5 pairs of shorts and 4 shirts. How many outfits can he make? (An “outfit” is any shirt matched with any pair of pants.)



Answer: \_\_\_\_\_ outfits

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2. a. Measure the length and width of the mattress on your bed in feet. What is the length and width, rounded to the nearest whole foot?



Answer: length = \_\_\_\_\_ feet, width = \_\_\_\_\_ feet

b. Make a square out of cardboard that is 1 foot on each side. Use this to find the area of your mattress, in square feet.

Answer: The area is \_\_\_\_\_ square feet.

c. Is there a quick way to find the area of a mattress if you know the length and the width? Explain:

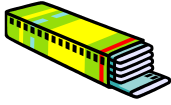
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3. Frank bought 5 packages of hotdogs. Each package has 8 hotdogs. He ate some hotdogs this week. Let  $h$  represent the number of hotdogs he ate. Write an expression to show how many hot dogs he has left.



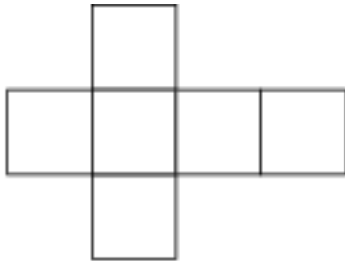
Answer: He has this many hot dogs left: \_\_\_\_\_

☺ 4. Juan has 8 packs of gum. There are 5 pieces of gum in each package. How many pieces of gum does he have in all?



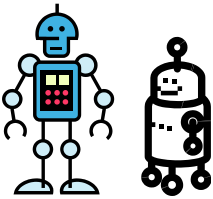
Answer: \_\_\_\_\_

☺ ☺ 5. Trace over the figure below. Then cut out your tracing and fold it on the inside lines so it makes a 3-dimensional shape. Put tape on it so it stays folded. What is this shape called?



Answer: It's called a \_\_\_\_\_

☺ ☺ ☺ 6. You have two robots that will do what you tell them to do with numbers. You set the robot on the left to always triple a number it gets as input. You set the robot on the right to always subtract 1 from a number it gets as input. Then you hook the robots up together so that you tell a number to the one on the left, then that robot outputs his number to the robot on the right, and that robot gives the final output. If you whisper "1" to the left robot, it then outputs  $3 \times 1$  or "3" to the right robot, and the right robot outputs  $3 - 1$  or "2". Fill in the missing input-output chart below, for different input numbers.



<u>Input number on left</u>	<u>Final output number</u>
1	2
4	___
2	___
10	___

☺ 7. A penny is 0.01 of a dollar. So a nickel is what decimal part of a dollar?

Penny = \$0.01

Nickel = \$ \_\_\_\_\_

