

Name:

You want to give each person who attends the safety fair a small safety kit to take home.

Your answers to the following questions will help you prepare the safety kits.

Safety Rules are the Best Tools

Question 1

Your budget for the safety kits is \$3660. Each kit costs \$6. Use place value notation to determine how many kits you can make. Explain your thinking.

Question 2

Explain how to use the equation $3660 \div 6 = 610$ to calculate the product 610×6 .

Question 3

Your budget for the safety kits is \$3660. You want to make 500 kits. Use a place value expansion to determine the cost of each kit. Explain your thinking.

Question 4

Use the Safety Kit Table below to answer the following question.

Write an expression to find the cost of a flashlight and batteries for 610 kits. Use words to explain the expression and how to solve it.

SAFETY RULES ARE THE BEST TOOLS	
Safety Kit	
Item	Cost
flashlight (without batteries)	\$1.50
batteries	\$1.00
first aid kit	\$2.00
hand sanitizer	\$0.50
Sunscreen	\$0.50
bike reflectors	\$0.20
whistle	\$0.75
water purification tablets	\$1.25
can opener	\$0.70
waterproof matches	\$0.15
reflective arm band	\$0.80
"Be Safe" magnet	\$0.30
energy bar	\$0.85
keychain	\$0.25

Question 5

Use the Safety Kit Table above to answer the following question.

Write an expression to find the cost of a flashlight, batteries, and a first aid kit for 610 kits. Use words to explain the expression and how to solve it.

Question 6

Use the Safety Kit Table above to answer the following question.

List the items that you will put in your safety kit along with the cost of each item. Explain how you can group decimal numbers together to make finding the sum easier. The total cost of your kit should be \$6.

Question 7

Use the Safety Kit Table above to answer the following question.

Write an expression to find the total cost of the items needed to make 610 of your safety kits. Use words to explain the expression and how to solve it.

Question 8

Use the Safety Kit Table above to answer the following question.

Office Ali used this expression to determine the cost of items for her safety kit.

$$250 \times (\$2.00 + \$0.85 + \$0.15)$$

Use this expression to determine what items are in the safety kit and the total number of safety kits. Explain how you found the answer.

Question 9

Use the Safety Kit Table above to answer the following question.

It costs \$1.89 to buy a flashlight that comes with batteries. Use your understanding of place value to find the difference in cost between buying one flashlight and one set of batteries separately, and the cost of buying one flashlight that comes with batteries. Show or explain how you found the answer.

Question 10

There are 24 bottles of hand sanitizer in one case. Use repeated multiplication and subtraction to determine how many cases you need to fill 610 safety kits. Show or explain how you found the answer.

Question 11

You ordered 15 cases of sunscreen. Each case contains 45 tubes of sunscreen. How many tubes of sunscreen did you order? Show or explain how you found the answer.

Question 12

One flashlight costs \$1.50. Explain how to estimate the cost for 7320 flashlights without doing multiplication.

Question 13

One flashlight costs \$1.50. What is the cost for 7320 flashlights? Show or explain how you found the answer.