

Name \_\_\_\_\_

1. Mel planted his garden. He planted 8 rows with 9 plants in each row on Saturday. He planted 48 plants on Monday. He wants to know how many more plants he planted on Saturday than on Monday.

Choose the correct operations to represent this problem using equations. Write each operation on the blanks. **1 point**

8  ~~$\times$~~  9 =  $p$

72  ~~$-$~~  48 =  $t$

+   -    $\times$     $\div$

2. Emma has a bag of 180 peaches. She uses 126 of them to make pies for a bake sale. She divides the rest equally among 6 friends. She wants to find how many peaches each friend gets. **1 point**

Which equations should she use? Select all that apply.

- $180 \div 6 = a$   
  $180 - 126 = b$   
  $54 \div 6 = c$   
  $54 - 6 = d$   
  $180 - 6 = e$

3. Barry's club is selling greeting cards. There are 6 cards in each pack. Each of his 2 aunts buys 5 packs of cards. Write and solve equations to find the total number of cards his aunts buy. **2 points**

**60 cards; Sample answer:  $2 \times 5 = a$ ,  $a = 10$ ;  $10 \times 6 = t$ ,  $t = 60$**

4. Rose Hill Elementary School has 448 paper cups. Grade 3 uses 126 paper cups for a class project. Grade 2 uses 118 for a class picnic. Bette says that  $126 + 118 = t$  cups are used in all, and that  $448 - 244 = r$  cups are left. Is her answer reasonable? Explain why or why not. **2 points**

**Yes; Sample answer: She found the cups used:  $126 + 118 = 244$ . Then she subtracted the cups used from the initial number:  $448 - 244 = r$ .**

5. Tim has 232 erasers in his collection. His mother buys 24 more erasers for the family. She divides the new erasers equally among Tim and his 3 sisters. How many erasers does Tim have now? **1 point**

**238 erasers**

6. Eight teachers each bring 5 boxes of corn muffins to a school event. The muffins are shared equally among 240 students.

A. How many students share 1 box?

1 point

6 students

B. Hu thinks that the answer is 24 students. He says, " $8 + 5 = 13$ , and 13 rounds to 10. Then  $10 \times 24 = 240$ ." Do you agree with his reasoning? Explain. 2 points

**No; Sample answer: To find the number of boxes, Hu needs to first multiply 8 by 5, instead of adding 5. He should only round when he makes an estimate, not when he finds the exact answer.**

7. Bobbi needs 48 yards of ribbon for a craft project. The ribbon costs \$4 a yard. She spends \$72 on ribbon. She wants to know how many more yards of ribbon she needs. Which equation could she use first to solve this problem? 1 point

- A  $c = 72 \div 4$        C  $y = 48 - 4$   
 B  $c = 72 + 4$        D  $y = 72 \div 12$

8. Mr. Larson worked 5 days during the week. On each work day, he spent \$7 on lunch. On Sunday, he spent \$40 on lunch for his family. How much did he spend on lunches for the week? 1 point

\$75

9. Alice takes out the trash whenever it gets too full. She takes out the trash in the kitchen 8 times each month. She takes out the trash in her bedroom 1 time each month. How many times does she take out the trash in 3 months? 1 point

- A 9  
 B 36  
 C 27  
 D 25

10. Meg wants to send her grandmother 135 letters. She sends 9 letters each month for 3 months. What is a good estimate for how many more letters Meg needs to send to reach her goal? Select all that apply. 1 point

- 115  
 105  
 120  
 90  
 110