

PROBLEM SOLVING

Lesson 1.9

Name _____

Problem Solving • Multiplication and Division

COMMON CORE STANDARD CC.5.NBT.6

Perform operations with multi-digit whole numbers and with decimals to hundredths.

Solve the problems below. Show your work.

1. Dani is making punch for a family picnic. She adds 16 fluid ounces of orange juice, 16 fluid ounces of lemon juice, and 8 fluid ounces of lime juice to 64 fluid ounces of water. How many 8-ounce glasses of punch can she fill?

$$16 + 16 + 8 + 64 = 104 \text{ fluid ounces}$$

$$\begin{aligned} 104 \div 8 &= (40 + 64) \div 8 \\ &= (40 \div 8) + (64 \div 8) \\ &= 5 + 8, \text{ or } 13 \end{aligned}$$

13 glasses

2. Ryan has nine 14-ounce bags of popcorn to repackage and sell at the school fair. A small bag holds 3 ounces. How many small bags can he make?
- _____
3. Bianca is making scarves to sell. She has 33 pieces of blue fabric, 37 pieces of green fabric, and 41 pieces of red fabric. Suppose Bianca uses 3 pieces of fabric to make 1 scarf. How many scarves can she make?
- _____
4. Jasmine has 8 packs of candle wax to make scented candles. Each pack contains 14 ounces of wax. Jasmine uses 7 ounces of wax to make one candle. How many candles can she make?
- _____
5. Maurice puts 130 trading cards in protector sheets. He fills 7 sheets and puts the remaining 4 cards in an eighth sheet. Each of the filled sheets has the same number of cards. How many cards are in each filled sheet?
- _____

Lesson Check (CC.5.NBT.6)

- Joyce is helping her aunt create craft kits. Her aunt has 138 pipe cleaners, and each kit will include 6 pipe cleaners. How many kits can they make?
(A) 13
(B) 18
(C) 22
(D) 23
- Stefan plants seeds for 30 carrot plants and 45 beet plants in 5 rows, with the same number of seeds in each row. How many seeds are planted in each row?
(A) 10
(B) 14
(C) 15
(D) 80

Spiral Review (Reviews CC.4.NBT.3; CC.5.NBT.5, CC.5.NBT.6)

- Georgia wants to evenly divide 84 trading cards between 6 friends. How many cards will each friend get? (Lesson 1.8)
(A) 12
(B) 13
(C) 14
(D) 16
3. Georgia wants to evenly divide 84 trading cards between 6 friends. How many cards will each friend get? (Lesson 1.8)
(A) 12
(B) 13
(C) 14
(D) 16
4. Maria has 144 marbles. Emanuel has 4 times the number of marbles Maria has. How many marbles does Emanuel have? (Lesson 1.6)
(A) 36
(B) 140
(C) 566
(D) 576
5. The Conservation Society bought and planted 45 cherry trees. Each tree cost \$367. What was the total cost of planting the trees? (Lesson 1.7)
(A) \$3,303
(B) \$16,485
(C) \$16,515
(D) \$20,185
6. A sports arena covers 710,430 square feet of ground. A newspaper reported that the arena covers about 700,000 square feet of ground. To what place value was the number rounded? (Grade 4)
(A) hundreds
(B) thousands
(C) ten thousands
(D) hundred thousands