

Name \_\_\_\_\_

**Problem Solving • Multiplication and Division**



**COMMON CORE STANDARD—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?

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

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

**13 glasses**

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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?
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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?
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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?
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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?
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### Numerical Expressions



**Common Core Standard—5.OA.1, 5.OA.2** Write and interpret numerical expressions.

**Write an expression to match the words.**

1. Ethan collected 16 seashells. He lost 4 of them while walking home.

$$16 - 4$$


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2. Yasmine bought 4 bracelets. Each bracelet cost \$3.
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3. Amani did 10 jumping jacks. Then she did 7 more.
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4. Darryl has a board that is 8 feet long. He cuts it into pieces that are each 2 feet long.
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**Write words to match the expression.**

5.  $3 + (4 \times 12)$

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6.  $36 \div 4$

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7.  $24 - (6 + 3)$

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**Draw a line to match the expression with the words.**

8. Ray picked 30 apples and put them equally into 3 baskets. Then he ate two of the apples in a basket.

$(3 \times 2) \times 30$

9. Quinn had \$30. She bought a notebook for \$3 and a pack of pens for \$2.

$(30 \div 3) - 2$

10. Colleen runs 3 miles twice a day for 30 days.

$30 - (3 + 2)$

### Problem Solving

11. Kylie has 14 polished stones. Her friend gives her 6 more stones. Write an expression to match the words.
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12. Rashad had 25 stamps. He shared them equally among himself and 4 friends. Then Rashad found 2 more stamps in his pocket. Write an expression to match the words.
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**Evaluate Numerical Expressions****Common Core Standard—5.OA.1**  
*Write and interpret numerical expressions.***Evaluate the numerical expression.**

1.  $24 \times 5 - 41$   
**120 - 41**

2.  $(32 - 20) \div 4$

3.  $16 \div (2 + 6)$

4.  $15 \times (8 - 3)$

**79**

5.  $4 \times 8 - 7$

6.  $27 + 5 \times 6$

7.  $3 \div 3 \times 4 + 6$

8.  $14 + 4 \times 4 - 9$

**Rewrite the expression with parentheses to equal the given value.**

9.  $3 \times 4 - 1 + 2$

value: 11

10.  $2 \times 6 \div 2 + 1$

value: 4

11.  $5 + 3 \times 2 - 6$

value: 10

**Problem Solving**

12. Sandy has several pitchers to hold lemonade for the school bake sale. Two pitchers can hold 64 ounces each, and four pitchers can hold 48 ounces each. How many total ounces can Sandy's pitchers hold?

13. At the bake sale, Jonah sold 4 cakes for \$8 each and 36 muffins for \$2 each. What was the total amount, in dollars, that Jonah received from these sales?

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**Grouping Symbols**



**COMMON CORE STANDARD—5.OA.1**  
*Write and interpret numerical expressions.*

**Evaluate the numerical expression.**

1.  $5 \times [(11 - 3) - (13 - 9)]$

$5 \times [8 - (13 - 9)]$

$5 \times [8 - 4]$

$5 \times 4$

**20**

2.  $30 - [(9 \times 2) - (3 \times 4)]$

3.  $36 \div [(14 - 5) - (10 - 7)]$

4.  $7 \times [(9 + 8) - (12 - 7)]$

5.  $[(25 - 11) + (15 - 9)] \div 5$

6.  $[(8 \times 9) - (6 \times 7)] - 15$

7.  $8 \times \{[(7 + 4) \times 2] - [(11 - 7) \times 4]\}$

8.  $\{[(8 - 3) \times 2] + [(5 \times 6) - 5]\} \div 5$

**Problem Solving**



**Use the information at the right for 9 and 10.**

9. Write an expression to represent the total number of muffins and bagels Joan sells in 5 days.

Joan has a cafe. Each day, she bakes 24 muffins. She gives away 3 and sells the rest. Each day, she also bakes 36 bagels. She gives away 4 and sells the rest.

10. Evaluate the expression to find the total number of muffins and bagels Joan sells in 5 days.