

NAME _____

DATE _____

**Unit 1 Post-Assessment** page 1 of 3**1** Complete the chart.

| | a List all factors of the number. | b List two multiples of the number. | c Write P if the number is prime or C if the number is composite. |
|----|--|--|--|
| 11 | 1, 11 | Check with Mr. B | P |
| 24 | 1, 2, 3, 4, 6, 8, 12, 24 | Check with Mr. B | C |

2 Write a prime number in the space below and tell how you know it is prime.

Check with Mr. Bertrams

3 Write a composite number in the space below and tell how you know it is composite.

Check with Mr. Bertrams

4 The equation $9 \times 7 = 63$ can mean:

- 9 folders and 7 folders together are 63 folders
- 9 erasers divided into 7 groups is 63 erasers
- 63 crayons are 9 times the 7 crayons at the green table
- The difference between 9 binders and 7 markers is 63

5 Fill in the bubbles beside the two equations that best represent this situation: Jalen picked 20 flowers. That is 4 times as many as his little brother, Andre, picked. How many flowers did Andre pick? (In the equations below, f stands for Andre's flowers.)

- $20 \times 4 = f$ $20 = 4 \times f$ $20 \div f = 4$ $20 - 4 = f$

6 Write and solve a multiplication equation for each of these problems.**a** David is 12 years old. David's grandma is 5 times older than David. How old is David's grandma?

60 years old

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- b** Raven bought a dress and a sweater. The dress cost 2 times as much as the sweater. The sweater cost \$19. How much did the dress cost?

\$38

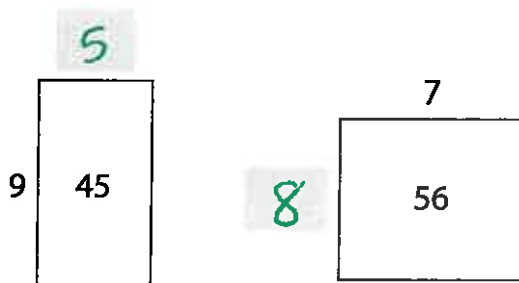
- c** Jorge bought a video game and a DVD. The video game cost \$36. The DVD cost \$9. How many times more than the DVD did the video game cost?

4 times more

- 7** Fill in the blanks to complete this ratio table.

| | | | | | |
|--------------------|---|----|----|----|----|
| Number of Students | 1 | 2 | 5 | 10 | 9 |
| Number of Folders | 8 | 16 | 40 | 80 | 72 |

- 8** Find and write in the missing dimension on each of the rectangles below.



- 9** Complete the equations.

a

| |
|-----|
| 7 |
| × 7 |
| 49 |

| |
|------|
| 5 |
| × 10 |
| 50 |

| |
|-----|
| 4 |
| × 9 |
| 36 |

| |
|-----|
| 7 |
| × 4 |
| 28 |

| |
|-----|
| 50 |
| × 2 |
| 100 |

| |
|-----|
| 3 |
| × 7 |
| 21 |

| |
|-----|
| 5 |
| × 8 |
| 40 |

b $10 \times 8 = 80$ $30 \times 2 = 60$ $6 \times 6 = 36$ $10 \times 9 = 90$

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10 Solve each of the story problems below. Show your thinking with numbers, sketches, or words. Then, write an equation that represents your work, and record the answer, labeled with the correct units.

- a** There are 5 students in the purple group. They each brought 3 packs of paper to school. The class needs 8 times as much paper as the entire purple group brought to last the whole year. How many packs of paper does the class need?

Equation _____

120 packs of paper

Answer, labeled with correct units

- b** Claire saw 4 columns of markers in a box of 36 markers. How many markers are in each column?

Equation _____

9 markers

Answer, labeled with correct units

11 The Hawks table group has 5 students, and each student brought 3 pencils. The Eagle table group has 5 students, and each student brought 5 pencils. After they collected the pencils, Mrs. Raptor divided them evenly among the students at those two tables. How many pencils did each student get?

- a** Solve the problem above. Show your thinking with numbers, sketches, or words. You do not need to write an equation for this problem.

4 pencils

- b** Which equation best represents this story problem? (The letter p stands for the number of pencils each student got.)

$5 + 3 + 5 + 5 = p$

$(5 \times 3) + (5 \times 5) = p$

$((5 \times 3) + (5 \times 5)) \div 10 = p$

$((5 \times 3) + (5 \times 5)) \times 10 = p$