Expressions and Relationships Assessment

Name _____

1. Evaluate the expression.
$(12 + 3) \times 4$

Ⓐ 19
Ⓑ 24
Ⓒ 40
Ⓓ 60

2. Evaluate the expression.
$64 \div (8 - 4)$

Ⓐ 60
Ⓑ 16
Ⓒ 4
Ⓓ 2

3. Evaluate the expression.
$(24 + 12) \div 3 - 2$

Ⓐ 36
Ⓑ 26
Ⓒ 10
Ⓓ 9

4. Choose the number expression that best represents the given word expression.
Add 10 and 8, then divide by 3.

Ⓐ $10 + 8 \div 3$
Ⓑ $(10 + 8) \div 3$
Ⓒ $3 \div (10 + 8)$
Ⓓ $3 \div 10 + 8$

5. Fifteen red cups and 5 blue cups are each filled with 8 ounces of juice. Choose the expression that best represents the total amount of juice in ounces.

Ⓐ $8 \times (15 + 5)$
Ⓑ $8 \times 15 + 5$
Ⓒ $15 + (5 \times 8)$
Ⓓ $15 + 5 \times 8$

Name _____

6. Compare the two expressions and their values. Describe and explain your comparisons.

I. $5 \times (337 + 24 \div 3)$ II. $337 + 24 \div 3$

7. Lars will save $2 each week for 7 weeks. Kei will save $3 each week for 7 weeks. Write each boy's total savings as a sequence for weeks 1–7. Compare the two number patterns. Describe your comparison.

Name _____

8. For 5 weeks in a row, Lena walked 4 miles each week and Suzy walked 1 mile each week.

Write each girl's total miles as a sequence for weeks 1–5. Compare the number patterns by graphing ordered pairs. Describe your graph.