Name _____

Use Grouping Symbols

1 MP **Model with Mathematics** Dan has a flower shop. He has a display of 36 roses. He sells 3 bouquets of 4 roses on Monday and 2 bouquets of 5 roses on Tuesday. What expression models the number of roses Dan has left in the display?

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2 MP **Reason** Describe how you would evaluate the numerical expression.

$$\{[24 \div (6 - 2)] - 4\} \times 3$$

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Use parentheses to rewrite the numerical expression to have the given value.

3 $36 \div 9 + 3 - 2$

value: 1

_____

4 $20 - 2 \times 4 + 1$

value: 10

_____

5 $15 + 17 \div 8 - 4$

value: 8

_____

6 $12 - 3 \times 8 - 6$

value: 66

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7 MP **Critique Reasoning** Anthony says that he can evaluate the numerical expression $(5 + 4) \times 3 - 2$ without parentheses and get the same answer. Is Anthony correct? Explain how you know.

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Test Prep

8 Use parentheses to rewrite the numerical expression $25 - 4 \times 3 + 2$ to have a value of 11.

9 Select all numerical expressions that have a value of 28.

Ⓐ $3 \times 4 + 2 \times 5 + 6$

Ⓑ $3 \times (4 + 2 \times 5 + 6)$

Ⓒ $3 \times (4 + 2) \times 5 + 6$

Ⓓ $(3 \times 4) + (2 \times 5) + 6$

Ⓔ $(3 \times 4 + 2) \times 5 + 6$

10 Use the numbers 1 through 5 to place the steps in order to correctly evaluate the numerical expression.

$5 + 60 \div \{6 \times [6 - (1 + 4)]\}$

Step Number	Step
	Multiply the value in the brackets by 6.
	Add 1 and 4.
	Divide 60 by the value in the braces.
	Add 5 to the quotient.
	Subtract the value in the parentheses from 6.

Spiral Review

11 The printer in the library prints 78 pages in one minute. How long does it take to print 1,950 pages?

12 Write a numerical expression to model the situation.

Kristen read her book for 2 hours after school. Then she read for another hour before she went to sleep.