

Name _____

Date _____




1. Draw a model. Then write the numerical expressions.

a. The sum of 8 and 7, doubled	b. 4 times the sum of 14 and 26
c. 3 times the difference between 37.5 and 24.5	d. The sum of 3 sixteens and 2 nines
e. The difference between 4 twenty-fives and 3 twenty-fives	f. Triple the sum of 33 and 27

2. Write the numerical expressions in words.

Expression	Words	The Value of the Expression
a. $12 \times (5 + 25)$		
b. $(62 - 12) \times 11$		
c. $(45 + 55) \times 23$		
d. $(30 \times 2) + (8 \times 2)$		

3. Compare the two expressions using $>$, $<$, or $=$. In the space beneath each pair of expressions, explain how you can compare without calculating. Draw a model if it helps you.

a. $24 \times (20 + 5)$		$(20 + 5) \times 12$
b. 18×27		20 twenty-sevens minus 1 twenty-seven
c. 19×9		3 nineteens, tripled

4. Mr. Huynh wrote *the sum of 7 fifteens and 38 fifteens* on the board.
- a. Draw a model and write the correct expression.

5. Two students wrote the following numerical expressions.

Angeline: $(7 + 15) \times (38 + 15)$

MeiLing: $15 \times (7 + 38)$

Are the students' answers equivalent to your answer in Problem 4(a)? Explain your answer.

6. A box contains 24 oranges. Mr. Lee ordered 8 boxes for his store and 12 boxes for his restaurant.

- Write an expression to show how to find the total number of oranges ordered.
- Next week, Mr. Lee will both double the number of boxes he orders. Write a new expression to represent the number of oranges in next week's order.
- Evaluate your expression from Part (b) to find the total number of oranges ordered in both weeks.


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1. Draw a model then write the numerical expressions.

<p>a. The difference between 8 forty-sevens and 7 forty-sevens</p> 	<p>b. 6 times the sum of 12 and 8</p>
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2. Compare the two expressions using $>$, $<$, or $=$.

$62 \times (70 + 8)$		$(70 + 8) \times 26$
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

1. Draw a model then write the numerical expressions.

a. The sum of 21 and 4, doubled	b. 5 times the sum of 7 and 23
c. 2 times the difference between 49.5 and 37.5	d. The sum of 3 fifteens and 4 twos
e. The difference between 9 thirty-sevens and 8 thirty-sevens	f. Triple the sum of 45 and 55

2. Write the numerical expressions in words.

Expression	Words	The Value of the Expression
a. $10 \times (2.5 + 13.5)$		
b. $(98 - 78) \times 11$		
c. $(71 + 29) \times 26$		
d. $(50 \times 2) + (15 \times 2)$		

3. Compare the two expressions using $>$, $<$, or $=$. In the space beneath each pair of expressions, explain how you can compare without calculating. Draw a model if it helps you.

a. $93 \times (40 + 2)$		$(40 + 2) \times 39$
b. 61×25		60 twenty-fives minus 1 twenty-five

4. Larry claims that $(14 + 12) \times (8 + 12)$ and $(14 \times 12) + (8 \times 12)$ are equivalent because they have the same digits and the same operations.
- Is Larry correct? Explain your thinking.
 - Which expression is greater? How much greater?