Name _____ Date _____

1. Solve.

a. $9 - (6 + 3) =$ _____

b. $(9 - 6) + 3 =$ _____

c. _____ $= 14 - (4 + 2)$

d. _____ $= (14 - 4) + 2$

e. _____ $= (4 + 3) \times 6$

f. _____ $= 4 + (3 \times 6)$

g. $(18 \div 3) + 6 =$ _____

h. $18 \div (3 + 6) =$ _____

2. Use parentheses to make the equations true.

a. $14 - 8 + 2 = 4$

b. $14 - 8 + 2 = 8$

c. $2 + 4 \times 7 = 30$

d. $2 + 4 \times 7 = 42$

e. $12 = 18 \div 3 \times 2$

f. $3 = 18 \div 3 \times 2$

g. $5 = 50 \div 5 \times 2$

h. $20 = 50 \div 5 \times 2$

3. Determine if the equation is true or false.

a. $(15 - 3) \div 2 = 6$	*Example:* True
b. $(10 - 7) \times 6 = 18$	
c. $(35 - 7) \div 4 = 8$	
d. $28 = 4 \times (20 - 13)$	
e. $35 = (22 - 8) \div 5$	

4. Jerome finds that $(3 \times 6) \div 2$ and $18 \div 2$ are equal. Explain why this is true.

5. Place parentheses in the equation below so that you solve by finding the difference between 28 and 3. Write the answer.

$$4 \times 7 - 3 =$$

6. Johnny says that the answer to $2 \times 6 \div 3$ is 4 no matter where he puts the parentheses. Do you agree? Place parentheses around different numbers to help you explain his thinking.

Answer Key

1. a. 0
   b. 6
   c. 8
   d. 12
   e. 42
   f. 22
   g. 12
   h. 2
2. a. $14 - (8 + 2) = 4$
   b. $(14 - 8) + 2 = 8$
   c. $2 + (4 \times 7) = 30$
   d. $(2 + 4) \times 7 = 42$
   e. $12 = (18 \div 3) \times 2$
   f. $3 = 18 \div (3 \times 2)$
   g. $50 \div (5 \times 2) = 5$
   h. $20 = (50 \div 5) \times 2$
3. a. Answer provided
   b. True
   c. False
   d. True
   e. False
4. Explanations may vary.
5. $(4 \times 7) - 3 = 25$
6. Answers will vary.