Topic: Truth Values of Compound Sentences - Worksheet 1

1. Let \( t \) represent “5 is odd.” and \( r \) represent “8 - 10 = -2.” What is the truth value of \( t \) and \( r \)

Determine the truth value of the statement:
2. "14 is square of 5 or 7 – 9 = -2"

Determine the truth value of the statement:
3. "If all even numbers are multiples of 3 then sum of all angles of any quadrilateral is 360° or 11 – 5 = 6."

"A square has three vertexes or rectangle has 4 vertexes”

4. What is the truth value of the negation of this sentence?

Determine the truth value of the statement:
5. "If (6)(-4) = 8 and (-4)(6) = 8, then (6)(-4) = (-4)(6)."

Let \( p \) represent “tiger roar”, \( q \) represent “frogs bark.” and \( r \) represents “oxen hoot.” What is the truth value of the “If \( p \) and \( q \), then \( r \)”?

Determine the truth value of the sentence: "Square has sum of all interior angles measures 180° or rectangle is four sided polygon.”

Determine the truth value of the statement: "If 4 is odd or 7 is even, then a square is triangle."

Determine the truth value of the statement:
6. "Multiple of 20 has 0 at unit place and 24 is even."

"All points on a circle have equal distance from its center or 8 + (-12) = 10. -2" What is the truth value of the negation of this sentence?
Let \( t \) represent “7 is odd.” and \( r \) represent “12 - 20 = -8.” What is the truth value of \( t \) and \( r \)

Determine the truth value of the statement:

2. "15 is square of 6 or 8 – 13 = -5"

Determine the truth value of the statement:

3. "If all even numbers are multiples of 3 then sum of all angles of any quadrilateral is 160° or 13 – 5 = 8."

"A square has three vertexes or rectangle has 4 vertexes”

4. What is the truth value of the negation of this sentence?

Determine the truth value of the statement:

5. "If (8)(-6) = 4 and (-6)(8) = 4, then (8)(-6) = (-6)(8)."

Let \( p \) represent “cow moo”, \( q \) represent “donkey bark.” and \( r \) represents “monkey whoop.” What is the truth value of the “If \( p \) and \( q \), then \( r \)”? 

Determine the truth value of the sentence: "Square has sum of all interior angles measures 160° or rectangle is four sided polygon.”

Determine the truth value of the statement: "If 8 is odd or 11 is even, then a square is triangle."

Determine the truth value of the statement:

9. "Multiple of 30 has 0 at unit place and 28 is even."

"All points on a circle have equal distance from its center or 5 + (-10) = -4" What is the truth value of the negation of this sentence?
Topic: Truth Values of Compound Sentences - Worksheet 3

1. Let $t$ represent “11 is odd.” and $r$ represent “$18 - 24 = -6.” What is the truth value of $t$ and $r$?

2. Determine the truth value of the statement: "12 is square of 5 or $9 - 20 = -11"

3. Determine the truth value of the statement: "If all even numbers are multiples of 3 then sum of all angles of any quadrilateral is 130° or $15 - 6 = 9."

4. "A square has three vertexes or rectangle has 4 vertexes” What is the truth value of the negation of this sentence?

5. Determine the truth value of the statement: "If $(9)(-5) = 3$ and $(-5)(9) = 3$, then $(9)(-5) = (-5)(9)."

6. Let $p$ represent “bull bellow”, $q$ represent “goat baa.” and $r$ represents “dove cry.” What is the truth value of the “If $p$ and $q$, then $r$”?

7. Determine the truth value of the sentence: "Square has sum of all interior angles measures 130° or rectangle is four sided polygon.”

8. Determine the truth value of the statement: "If 10 is odd or 2 is even, then a square is triangle."

9. Determine the truth value of the statement: "Multiple of 40 has 0 at unit place and 30 is even."

10. "All points on a circle have equal distance from its center or $4 + (-10) = -5"$ What is the truth value of the negation of this sentence?
1. Let \( t \) represent “15 is odd.” and \( r \) represent “24 - 42 = -18.” What is the truth value of \( t \) and \( r \)?

Determine the truth value of the statement:
2. "14 is square of 8 or 14 – 28 = -14"

Determine the truth value of the statement:
3. "If all even numbers are multiples of 3 then sum of all angles of any quadrilateral is 120° or 19 – 7 = 12”

"A square has three vertexes or rectangle has 4 vertexes”
4. What is the truth value of the negation of this sentence?

Determine the truth value of the statement:
5. "If (14)(-8) = 5 and (-8)(14) = 3, then (14)(-8) = (-8)(14)."

Let \( p \) represent “camel grunt”, \( q \) represent “dear bell” and \( r \) represents “rabbits cry.” What is the truth value of the “If \( p \) and \( q \), then \( r \)’’?

Determine the truth value of the sentence: "Square has sum of all interior angles measures 120° or rectangle is four sided polygon.”

Determine the truth value of the statement: "If 12 is odd or 8 is even, then a square is triangle."

Determine the truth value of the statement:
9. "Multiple of 50 has 0 at unit place and 32 is even."

"All points on a circle have equal distance from its center or 14 + (-20) = -8" What is the truth value of the negation of this sentence?
1. Let \( t \) represent "21 is odd." and \( r \) represent "25 - 50 = -25." What is the truth value of \( t \) and \( r \)?

2. Determine the truth value of the statement: "18 is square of 6 or 18 – 35 = -17"

3. Determine the truth value of the statement: "If all even numbers are multiples of 3 then sum of all angles of any quadrilateral is 110° or 31 – 15 = 16" "A square has three vertexes or rectangle has 4 vertexes"

4. What is the truth value of the negation of this sentence?

5. Determine the truth value of the statement: "If (20)(-12) = 3 and (-12)(20) = 3, then (20)(-12) = (-12)(20)."

6. Let \( p \) represent "mouse bellow", \( q \) represent "elephant trumpet" and \( r \) represents "sheep cry." What is the truth value of the "If \( p \) and \( q \), then \( r \)"?

7. Determine the truth value of the sentence: "Square has sum of all interior angles measures 110° or rectangle is four sided polygon.”

8. Determine the truth value of the statement: "If 18 is odd or 10 is even, then a square is triangle."

9. Determine the truth value of the statement: "Multiple of 46 has 0 at unit place and 30 is even."

10. "All points on a circle have equal distance from its center or 23 + (-14) = -9" What is the truth value of the negation of this sentence?