

Name: _____

Date _____

Topic : Truth Values of Compound Sentences - Worksheet 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:
9. "Multiple of 20 has 0 at unit place and 24 is even."

"All points on a circle have equal distance from its center or $8 + (-12) = -2$ " What is the truth value of the negation of this sentence?
10.



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Topic : Truth Values of Compound Sentences - Worksheet 2

- Let t represent "7 is odd." and r represent " $12 - 20 = -8$." What is the truth value of t and r
- 1.

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

6. "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

7. 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,

8. 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 $5 + (-10) =$

10. -4 " What is the truth value of the negation of this sentence?



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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?



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Topic : Truth Values of Compound Sentences - Worksheet 4

1. Let t represent "15 is odd." and r represent " $24 - 42 = -18$." What is the truth value of t and r

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

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 120° or $19 - 7 = 12$ "

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 $(14)(-8) = 5$ and $(-8)(14) = 3$, then $(14)(-8) = (-8)(14)$."

6. 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 "?

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

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

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

10. "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?



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Topic : Truth Values of Compound Sentences - Worksheet 5

- Let t represent "21 is odd." and r represent " $25 - 50 = -25$." What is the truth value of t and r
- 1.

Determine the truth value of the statement:

2. "18 is square of 6 or $18 - 35 = -17$ "

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 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?

Determine the truth value of the statement:

5. "If $(20)(-12) = 3$ and $(-12)(20) = 3$, then $(20)(-12) = (-12)(20)$."

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 "?

- 6.

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

- 7.

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

- 8.

Determine the truth value of the statement:

9. "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?

