

Name: _____

Date _____

Topic: Logic- Disjunction, Conditional and Biconditional - Worksheet 1

If the given sentence is true.

1. "5 is odd and $3 + 4 = \underline{\hspace{2cm}}$ "
Which number could be used to fill the blank?

2. What is the truth value of the statement
" $2 + 7 = 9$ and $6 - 1 = 4$ "?

3. What is the truth value of the statement
" $7 - 2 = 5$ and $5 + 5 = 10$ "?

4. "A triangle has Four vertices"
What is the truth value of the sentence?

5. What is the truth value of the statement
" 6 is even and 10 is odd"?

6. What is the truth value of the statement
"Dog bark and Lion roar"?

7. What is the truth value of the sentence
"Rectangle has four sides or all rectangles are squares"?

8. What is the truth value of the statement
" $12 + 8 = 20$ and 14 is even."?

9. What is the truth value of the statement
" 16 is even and $10 + 7 = 17$ is even"?

10. "All rectangles have perimeter."
What is the truth value of the sentence?



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Topic: Logic- Disjunction, Conditional and Biconditional - Worksheet 2

- If the given sentence is true.
1. "7 is odd and $5 + 6 = \underline{\hspace{2cm}}$."
Which number could be used to fill the blank?
 2. What is the truth value of the statement
" $4 + 6 = 10$ and $18 - 5 = 2$."?
 3. What is the truth value of the statement
" $10 - 7 = 6$ and $8 + 3 = 10$."?
 4. "A square has two vertices."
What is the truth value of the sentence?
 5. What is the truth value of the statement
" 2 is even and 12 is odd."?
 6. What is the truth value of the statement
" Lion bark and monkey whoop ."?
 7. What is the truth value of the sentence
" $\text{Pentagon has five sides or all Pentagons are triangle}$."?
 8. What is the truth value of the statement
" $14 + 4 = 18$ and 16 is even."?
 9. What is the truth value of the statement
" 20 is even and $11 + 4 = 15$ is odd."?
 10. "All Hexagons have perimeter."
What is the truth value of the sentence?



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Topic: Logic- Disjunction, Conditional and Biconditional - Worksheet 3

If the given sentence is true.

1. "11 is odd and $7 + 9 = \underline{\hspace{2cm}}$."
Which number could be used to fill the blank?

2. What is the truth value of the statement
" $9 + 3 = 12$ and $13 - 8 = 6$ "?

3. What is the truth value of the statement
" $17 - 6 = 9$ and $14 + 2 = 12$."?

4. "A rectangle has four vertexes."
What is the truth value of the sentence?

5. What is the truth value of the statement
" 8 is even and 18 is odd."?

6. What is the truth value of the statement
" Goat bark and frogs croak ."?

7. What is the truth value of the sentence
" $\text{Hexagon has six sides or all squares are triangle.}$."?

8. What is the truth value of the statement
" $18 + 6 = 24$ and 20 is even."?

9. What is the truth value of the statement
" 22 is even and $13 + 6 = 19$ is odd."?

10. "All pentagons have perimeter."
What is the truth value of the sentences?



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Topic: Logic- Disjunction, Conditional and Biconditional - Worksheet 4

If the given sentence is true.

1. "13 is odd and $8 + 3 = \underline{\hspace{2cm}}$."
Which number could be used to fill the blank?

2. What is the truth value of the statement
" $9 + 3 = 12$ and $13 - 8 = 6$ "?

3. What is the truth value of the statement
" $19 - 8 = 12$ and $9 + 7 = 16$ "?

4. "A trapezoid has four vertices"
What is the truth value of the sentence?

5. What is the truth value of the statement
" 24 is even and 30 is odd."?

6. What is the truth value of the statement
" Bull barks and fox bark. ?"

7. What is the truth value of the sentence
" $\text{Trapezoid has four sides or all squares are triangle.}$?"

8. What is the truth value of the statement
" $15 + 5 = 20$ and 12 is even."?

9. What is the truth value of the statement
" 18 is even and $13 + 2 = 15$ is odd."?

10. "All trapezoids have perimeter."
What is the truth value of the sentence?



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Topic: Logic- Disjunction, Conditional and Biconditional - Worksheet 5

- If the given sentence is true.
1. "17 is odd and $10 + 3 = \underline{\hspace{2cm}}$."
Which number could be used to fill the blank?
 2. What is the truth value of the statement
" $16 + 4 = 20$ and $17 - 5 = 11$ "?
 3. What is the truth value of the statement
" $21 - 8 = 13$ and $1 + 3 = 4$ "?
 4. "A triangle has three vertices"
What is the truth value of the sentence?
 5. What is the truth value of the statement
" 26 is even and 28 is odd."?
 6. What is the truth value of the statement
" donkey bark and oxen low. ?"
 7. What is the truth value of the sentence
" $\text{Triangle has three sides or all triangles are pentagon.}$?"
 8. What is the truth value of the statement
" $6 + 2 = 8$ and 14 is even."?
 9. What is the truth value of the statement
" 4 is even and $11 + 10 = 21$ is also even."?
 10. "All Squares have perimeter."
What is the truth value of the sentence?

