

Name: _____

Date _____

Topic: Logic- Negation - NOT & Conjunctions- AND - Worksheet 1

- If the given sentence is true.
1. "17 is odd and $10 + 3 = \underline{\quad}$."
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 " $21 - 7 = 14$ and $2 + 2 = 4$ "?
 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 odd 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 "All triangles have three sides and all squares are triangle."?
 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 odd."?
 10. "All triangles have perimeter and all circles have radius."
What is the truth value of the sentence?



Name: _____

Date _____

Topic: Logic- Negation - NOT & Conjunctions- AND - Worksheet 2

If the given sentence is true.

1. "13 is odd and $8 + 3 = \underline{\hspace{1cm}}$."
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 " $19 - 7 = 12$ 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 odd and 30 is odd."?

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

7. What is the truth value of the sentence "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?



Name: _____

Date _____

Topic: Logic- Negation - NOT & Conjunctions- AND - Worksheet 3

- If the given sentence is true.
1. "11 is odd and $7 + 9 = \underline{\hspace{1cm}}$."
Which number could be used to fill the blank?
 2. What is the truth value of the statement " $6 + 9 = 18$ and $10 - 8 = 7$ "?
 3. What is the truth value of the statement " $17 - 6 = 9$ and $14 + 2 = 12$ "?
 4. "A rectangle has four vertices."
What is the truth value of the sentence?
 5. What is the truth value of the statement "8 is odd and 18 is odd"?
 6. What is the truth value of the statement "Dog bark and frog croak"?
 7. What is the truth value of the sentence "Hexagon has six sides or all squares are hexagon"?
 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 sentence?



Name: _____

Date _____

Topic: Logic- Negation - NOT & Conjunctions- AND - Worksheet 4

- If the given sentence is true.
1. "7 is odd and $5 + 6 = \underline{\quad}$."
Which number could be used to fill the blank?
 2. What is the truth value of the statement " $4 + 6 = 10$ and $9 - 5 = 2$."?
 3. What is the truth value of the statement " $10 - 7 = 6$ and $8 + 3 = 10$."?
 4. "A square has four vertices."
What is the truth value of the sentence?
 5. What is the truth value of the statement "2 is odd and 12 is odd."?
 6. What is the truth value of the statement "Tiger roar and monkey whoop."?
 7. What is the truth value of the sentence "Pentagon has five sides or all pentagon are square."?
 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 triangles have perimeter."
What is the truth value of the sentence?



Name: _____

Date _____

Topic: Logic- Negation - NOT & Conjunctions- AND - Worksheet 5

- If the given sentence is true.
1. "5 is odd and $3 + 4 = \underline{\hspace{1cm}}$."
Which number could be used to fill the blank?
 2. What is the truth value of the statement " $2 + 7 = 9$ and $6 - 3 = 4$."?
 3. What is the truth value of the statement " $7 - 4 = 5$ and $5 + 5 = 9$."?
 4. What is the truth value of the sentence? "A triangle has three vertices."
 5. What is the truth value of the statement "6 is odd and 10 is odd."?
 6. What is the truth value of the statement "Dog bark and cat meow."?
 7. What is the truth value of the sentence "Rectangle has four sides or all squares are pentagon"?
 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 $10 + 2 = 12$ is odd."?
 10. "All rectangles have perimeter."
What is the truth value of the sentence?

