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1. If the given sentence is true,

"If 7 is odd number, then 15 + 4 =____."

which number could be used to fill the blank?

- What is the truth value of the statement:"5 + 6 = 10 or 8 is a prime number"?
- **3.** What is the truth value of the statement: "10 is even and 12 is even"?
- What is the truth value of"18 is an odd if and only if a triangle contains 2 sides."?
- 5. What is the truth value of the statement:"6 is even and 3 is odd."?
- 6. What is the truth value of the statement: "If blue is a color, then red is color."?
- 7. What is the truth value of the sentence "Quadrilateral has 4 equal sides and Rectangle has four equal sides."?
- 8. What is the truth value of the statement:"6 3 = 3 or 7 is odd."?
- 9. What is the truth value of the statement:"17 is a prime number and 8 is odd."?
- **10.** What is the truth value of the sentences "14 is even and 10 is even"?



Topic: Truth Values: and, or, implies, if and only if- Worksheet 1 ANSWERS

1.	19
2.	False
3.	True
4.	True
5.	True
6.	True
7.	False
8.	True
9.	False
10.	True

Name:

1. If the given sentence is true,

"If 3 is odd number, then 11 + 2 =____."

which number could be used to fill the blank?

- What is the truth value of the statement:"7 + 4 = 11 or 13 is a prime number"?
- What is the truth value of the statement:"8 is even and 2 is even"?
- What is the truth value of "16 is an odd if and only if a triangle contains 3 sides."?
- 5. What is the truth value of the statement:"8 is even and 5 is odd."?
- 6. What is the truth value of the statement: "If pink is a color, then black is color."?
- 7. What is the truth value of the sentence "Quadrilateral has 4 unequal sides or Square has four equal sides."?
- 8. What is the truth value of the statement:"9 2 = 7 or 11 is odd."?
- 9. What is the truth value of the statement:"23 is a prime number and 12 is odd."?
- 10. What is the truth value of the sentences"18 is even and 8 is even"?



Topic: Truth Values: and, or, implies, if and only if- Worksheet 2 ANSWERS

1.	13
2.	True
3.	True
4.	False
5.	True
6.	True
7.	True
8.	True
9.	False
10.	True

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1. If the given sentence is false,

"If 9 is an even number, then 17 + 4 =____."

which number could be used to fill the blank?

- What is the truth value of the statement:"11 + 2 = 13 or 7 is a prime number"?
- **3.** What is the truth value of the statement: "16 is even and 8 is even"?
- What is the truth value of"12 is an odd number if and only if a triangle contains 3 sides."?
- 5. What is the truth value of the statement: "20 is even and 11 is odd."?
- 6. What is the truth value of the statement: "If grey is a color, then white is color."?
- 7. What is the truth value of the sentence"All Quadrilaterals has 4 equal sides and Square has four equal sides."?
- 8. What is the truth value of the statement:"23 9 = 13 or 3 is odd."?
- **9.** What is the truth value of the statement: "17 is a prime number and 19 is odd."?
- **10.** What is the truth value of the sentences "16 is even and 6 is even"?



Topic: Truth Values: and, or, implies, if and only if- Worksheet 3 ANSWERS

1.	21
2.	True
3.	True
4.	False
5.	True
6.	True
7.	False
8.	True
9.	True
10.	True

Name:

1. If the given sentence is true,

"If 17 is odd number, then 15+ 8 = ____."

which number could be used to fill the blank?

- 2. What is the truth value of the statement: "19 + 4 = 23 or 17 is a prime number"?
- What is the truth value of the statement:"22 is even and 16 is even"?
- 4. What is the truth value of"18 is an odd number if and only if a triangle contains 3 sides."?
- 5. What is the truth value of the statement: "24 is even and 3 is odd."?
- **6.** What is the truth value of the statement: "If yellow is a color, then brown is color."?
- What is the truth value of the sentence "Quadrilateral has 4 unequal sides or Rectangle has two equal sides."?
- 8. What is the truth value of the statement:"25 8 = 17 or 5 is odd."?
- 9. What is the truth value of the statement:"13 is a prime number and 9 is odd."?
- What is the truth value of the sentences"32 is even and 84 is even"?



Topic: Truth Values: and, or, implies, if and only if- Worksheet 4 ANSWERS

1.	23
2.	True
3.	True
4.	False
5.	True
6.	True
7.	True
8.	True
9.	True
10.	True

Name:

1. If the given sentence is true,

"If 27 is odd number, then 30+7 =____."

which number could be used to fill the blank?

- What is the truth value of the statement:"38 + 8 = 46 or 31 is a prime number"?
- **3.** What is the truth value of the statement: "40 is even and 36 is even"?
- What is the truth value of"42 is an odd if and only if a triangle contains 3 sides."?
- 5. What is the truth value of the statement:"38 is even and 27 is odd."?
- **6.** What is the truth value of the statement: "If orange is a color, then green is color."?
- 7. What is the truth value of the sentence"Square has 4 unequal sides and Rectangle has four equal sides."?
- 8. What is the truth value of the statement:"35 16 = 19 or 1 is odd."?
- 9. What is the truth value of the statement:"5 is a prime number and 23 is odd."?
- What is the truth value of the sentences"36 is even and 86 is even"?



Topic: Truth Values: and, or, implies, if and only if- Worksheet 5 ANSWERS

1.	37
2.	True
3.	True
4.	False
5.	True
6.	True
7.	False
8.	True
9.	True
10.	True