MathVine - Pre-Algebra Name_____

Prime or Composite Date_____ Period_____

Prime or Composite.

1) Is the whole number 54 prime or composite?

2) Is the whole number 26 prime or composite?

3) Is the whole number 164 prime or composite?

4) Is the whole number 107 prime or composite?

5) Is the whole number 166 prime or composite?

6) Is the whole number 167 prime or composite?

7) Is the whole number 119 prime or composite?

8) Is the whole number 195 prime or composite?

9) Is the whole number 67 prime or composite?

10) Is the whole number 171 prime or composite?

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1) Is the whole number 54 prime or composite?

Answer: Composite

2) Is the whole number 26 prime or composite?

Answer: Composite

3) Is the whole number 164 prime or composite?

Answer: Composite

4) Is the whole number 107 prime or composite?

Answer: Prime

5) Is the whole number 166 prime or composite?

Answer: Composite

6) Is the whole number 167 prime or composite?

Answer: Prime

7) Is the whole number 119 prime or composite?

Answer: Composite

8) Is the whole number 195 prime or composite?

Answer: Composite

9) Is the whole number 67 prime or composite?

Answer: Prime

10) Is the whole number 171 prime or composite?

Answer: Composite

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Solution Steps

1) Is the whole number 54 prime or composite?

54 (54 is even) $\rightarrow$ Yes

Because 2 is a divisor of 54, 54 is a composite number

2) Is the whole number 26 prime or composite?
26 (26 is even) $\rightarrow$ Yes
Because 2 is a divisor of 26, 26 is a composite number

3) Is the whole number 164 prime or composite?
164 (164 is even) $\rightarrow$ Yes
Because 2 is a divisor of 164, 164 is a composite number

4) Is the whole number 107 prime or composite?
107 (107 is not even) $\rightarrow$ No
107 ($1+0+7=8$, and $\rightarrow$/3 = No) No No
$107 \rightarrow \mathrm{No}$
107 is not divisible by 7
Because 107 has no factors other than 1 and 107, 107 is a prime number

5) Is the whole number 166 prime or composite?
166 (166 is even) $\rightarrow$ Yes
Because 2 is a divisor of 166, 166 is a composite number

6) Is the whole number 167 prime or composite?
167 (167 is not even) $\rightarrow$ No
167 ($1+6+7=14$, and $\rightarrow$/3 = No) No No
$167 \rightarrow \mathrm{No}$
167 is not divisible by 7
167 is not divisible by 11
Because 167 has no factors other than 1 and 167, 167 is a prime number

7) Is the whole number 119 prime or composite?
119 (119 is not even) $\rightarrow$ No
119 ($1+1+9=11$, and $\rightarrow$/3 = No) No No
$119 \rightarrow \mathrm{No}$
119 is divisible by 7
Because 7 is a divisor of 119, 119 is a composite number

8) Is the whole number 195 prime or composite?
195 (195 is not even) $\rightarrow$ No
195 ($1+9+5=15$, and $\rightarrow$/3 = Yes) Yes Yes
Because 3 is a divisor of 195, 195 is a composite number

9) Is the whole number 67 prime or composite?
67 (67 is not even) $\rightarrow$ No
67 ($6+7=13$, and $\rightarrow$/3 = No) No No
$67 \rightarrow \mathrm{No}$
67 is not divisible by 7
Because 67 has no factors other than 1 and 67, 67 is a prime number

10) Is the whole number 171 prime or composite?
171 (171 is not even) $\rightarrow$ No
171 ($1+7+1=9$, and $\rightarrow$/3 = Yes) Yes Yes
Because 3 is a divisor of 171, 171 is a composite number