Name_____

Date_____ Period_____

Prime or Composite.

1) Is the whole number 149 prime or composite?

2) Is the whole number 145 prime or composite?

3) Is the whole number 167 prime or composite?

4) Is the whole number 89 prime or composite?

5) Is the whole number 57 prime or composite?

6) Is the whole number 191 prime or composite?

7) Is the whole number 69 prime or composite?

8) Is the whole number 77 prime or composite?

9) Is the whole number 41 prime or composite?

10) Is the whole number 99 prime or composite?

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> Answer: Prime

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> Answer: Prime

7) Is the whole number 69 prime or composite?

> Answer: Composite

8) Is the whole number 77 prime or composite?

> Answer: Composite

9) Is the whole number 41 prime or composite?

> Answer: Prime

10) Is the whole number 99 prime or composite?

> Answer: Composite

MathVine - Pre-Algebra   Name_____

Prime or Composite   Date_____ Period_____

Solution Steps

1) Is the whole number 149 prime or composite?

149 (149 is not even) $\rightarrow$ No

149 (1+4+9 = 14, and $\rightarrow$/3 = No) No No

149 $\rightarrow$ No

149 is not divisible by 7

149 is not divisible by 11

Because 149 has no factors other than 1 and 149, 149 is a prime number

2) Is the whole number 145 prime or composite?

145 (145 is not even) $\rightarrow$ No

145 (1+4+5 = 10, and $\rightarrow$/3 = No) No No

145 $\rightarrow$ Yes

Because 5 is a divisor of 145, 145 is a composite number

3) 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 $\rightarrow$ 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

4) Is the whole number 89 prime or composite?

89 (89 is not even) $\rightarrow$ No

89 (8+9 = 17, and $\rightarrow$/3 = No) No No

89 $\rightarrow$ No

89 is not divisible by 7

Because 89 has no factors other than 1 and 89, 89 is a prime number

5) Is the whole number 57 prime or composite?

57 (57 is not even) $\rightarrow$ No

57 (5+7 = 12, and $\rightarrow$/3 = Yes) Yes Yes

Because 3 is a divisor of 57, 57 is a composite number

6) Is the whole number 191 prime or composite?

191 (191 is not even) $\rightarrow$ No

191 (1+9+1 = 11, and $\rightarrow$/3 = No) No No

191 $\rightarrow$ No

191 is not divisible by 7

191 is not divisible by 11

191 is not divisible by 13

Because 191 has no factors other than 1 and 191, 191 is a prime number

7) Is the whole number 69 prime or composite?

69 (69 is not even) $\rightarrow$ No

69 (6+9 $=$ 15, and $\rightarrow$/3 = Yes) Yes Yes

Because 3 is a divisor of 69, 69 is a composite number

8) Is the whole number 77 prime or composite?

77 (77 is not even) $\rightarrow$ No

77 (7+7 $=$ 14, and $\rightarrow$/3 = No) No No

77 $\rightarrow$ No

77 is divisible by 7

Because 7 is a divisor of 77, 77 is a composite number

9) Is the whole number 41 prime or composite?

41 (41 is not even) $\rightarrow$ No

41 (4+1 $=$ 5, and $\rightarrow$/3 = No) No No

41 $\rightarrow$ No

Because 41 has no factors other than 1 and 41, 41 is a prime number

10) Is the whole number 99 prime or composite?

99 (99 is not even) $\rightarrow$ No

99 (9+9 $=$ 18, and $\rightarrow$/3 = Yes) Yes Yes

Because 3 is a divisor of 99, 99 is a composite number