MathVine - Pre-Algebra Name_____

Understanding Prime Numbers Date_____ Period_____

1) Which of the whole numbers $11, 56, 71$ and 73 are prime numbers?

2) List prime numbers between 15 and 25

3) Which of the whole numbers $9, 35$ and 67 are prime numbers?

4) List prime numbers between 34 and 44

5) Which of the whole numbers $45, 64$ and 80 are prime numbers?

6) List prime numbers between 32 and 42

7) List prime numbers between 72 and 82

8) Which of the whole numbers $8, 40, 57$ and 61 are prime numbers?

9) Which of the whole numbers $20, 27, 68, 79$ and 88 are prime numbers?

10) List prime numbers between 20 and 30

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Understanding Prime Numbers Date_____ Period_____

1) Which of the whole numbers $11, 56, 71$ and 73 are prime numbers?

Answer: $11, 71$ and 73

2) List prime numbers between 15 and 25

Answer: $17, 19$ and 23

3) Which of the whole numbers $9, 35$ and 67 are prime numbers?

Answer: 67

4) List prime numbers between 34 and 44

Answer: $37, 41$ and 43

5) Which of the whole numbers $45, 64$ and 80 are prime numbers?

Answer:

6) List prime numbers between 32 and 42

Answer: 37 and 41

7) List prime numbers between 72 and 82

Answer: 73 and 79

8) Which of the whole numbers $8, 40, 57$ and 61 are prime numbers?

Answer: 61

9) Which of the whole numbers $20, 27, 68, 79$ and 88 are prime numbers?

Answer: 79

10) List prime numbers between 20 and 30

Answer: 23 and 29

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Solution Steps

1) Which of the whole numbers $11, 56, 71$ and 73 are prime numbers?
The factors of 11 are 1 and 11. Therefore 11 is a prime number.
The factors of 56 are $1, 2, 4, 7, 8, 14, 28$ and 56. Therefore 56 is not a prime number.
The factors of 71 are 1 and 71. Therefore 71 is a prime number.
The factors of 73 are 1 and 73. Therefore 73 is a prime number.

2) List prime numbers between 15 and 25
$17, 19$ and 23 are the prime numbers between 15 and 25

3) Which of the whole numbers $9, 35$ and 67 are prime numbers?
The factors of 9 are $1, 3$ and 9. Therefore 9 is not a prime number.
The factors of 35 are $1, 5, 7$ and 35. Therefore 35 is not a prime number.
The factors of 67 are 1 and 67. Therefore 67 is a prime number.

4) List prime numbers between 34 and 44
$37, 41$ and 43 are the prime numbers between 34 and 44

5) Which of the whole numbers $45, 64$ and 80 are prime numbers?
The factors of 45 are $1, 3, 5, 9, 15$ and 45. Therefore 45 is not a prime number.
The factors of 64 are $1, 2, 4, 8, 16, 32$ and 64. Therefore 64 is not a prime number.
The factors of 80 are $1, 2, 4, 5, 8, 10, 16, 20, 40$ and 80. Therefore 80 is not a prime number.

6) List prime numbers between 32 and 42
37 and 41 are the prime numbers between 32 and 42

7) List prime numbers between 72 and 82
73 and 79 are the prime numbers between 72 and 82

8) Which of the whole numbers $8, 40, 57$ and 61 are prime numbers?
The factors of 8 are $1, 2, 4$ and 8. Therefore 8 is not a prime number.
The factors of 40 are $1, 2, 4, 5, 8, 10, 20$ and 40. Therefore 40 is not a prime number.
The factors of 57 are $1, 3, 19$ and 57. Therefore 57 is not a prime number.
The factors of 61 are 1 and 61. Therefore 61 is a prime number.

9) Which of the whole numbers $20, 27, 68, 79 \text{ and } 88$ are prime numbers?
The factors of 20 are $1, 2, 4, 5, 10 \text{ and } 20$. Therefore 20 is not a prime number.
The factors of 27 are $1, 3, 9 \text{ and } 27$. Therefore 27 is not a prime number.
The factors of 68 are $1, 2, 4, 17, 34 \text{ and } 68$. Therefore 68 is not a prime number.
The factors of 79 are $1 \text{ and } 79$. Therefore 79 is a prime number.
The factors of 88 are $1, 2, 4, 8, 11, 22, 44 \text{ and } 88$. Therefore 88 is not a prime number.

10) List prime numbers between 20 and 30
$23 \text{ and } 29$ are the prime numbers between 20 and 30