



# Properties of Integers



Properties

Adding and  
Subtracting  
Integers

Prime Numbers

Divisibility  
Rules

Surprise

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## Properties for 100.



Identify the property shown:  $5x + 0 = 5x$

Commutative Property of Addition

Identity Property of Addition

Inverse Property of Addition

Multiplication Property of Zero

Distributive Property

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## Properties for 200.



Identify the property shown:  $-3(y+8) = -3y + -3 \cdot 8$

Associative Property of Addition

Associative Property of Multiplication

Commutative Property of Multiplication

Distributive Property

Commutative Property of Addition

## Properties for 300.



Identify the property shown:  $(11x + 15y) + 24z = 11x + (15y + 24z)$

Distributive Property

Commutative Property of Multiplication

Identity Property of Addition

Associative Property of Multiplication

Associative Property of Addition

## Properties for 400.



Identify the property shown:  $(3 \cdot 7) \cdot 2 = (7 \cdot 3) \cdot 2$

Associative Property of Multiplication

Distributive Property

Commutative Property of Multiplication

Distributive Property

Associative Property of Addition

# Adding and Subtracting Integers for 100.



Simplify  $-7 - 7$

0

14

49

-49

-14

## Adding and Subtracting Integers for 200.



Simplify  $-18 + 43 + (-75)$

-14

14

-50

50

none of them

## Adding and Subtracting Integers for 300.



Evaluate  $x - y + z$  if  $x = -3, y = -7, z = -4$

14

-14

6

0

none of them



## Adding and Subtracting Integers for 400.



Evaluate  $ab - cd$  if  $a = 5, b = 2, c = -4, d = -2$

18

-18

2

-2

none of them

## Prime Numbers for 100.



Which of the numbers 1-10 are prime?

1, 2, 3, 5, 7

2, 3, 5, 7, 9

2, 3, 5, 7

1, 3, 5, 7, 9

all of them except 10

## Prime Numbers for 200.



Find the prime factorization for 90

$$2 \cdot 5 \cdot 9$$

$$2^2 \cdot 3 \cdot 5$$

$$2 \cdot 3^2 \cdot 5$$

$$9 \cdot 10$$

none of them

## Prime Numbers for 300.



Find the prime factorization for 330

$$2 \cdot 5 \cdot 33$$

$$10 \cdot 33$$

$$3^2 \cdot 10$$

$$3 \cdot 11^2$$

$$2 \cdot 3 \cdot 5 \cdot 11$$

## Prime Numbers for 400.



Which of the following are prime numbers?

13, 21, 23, 42, 51, 53, 61, 67, 79, 81, 97

all of them except 42

13, 23, 51, 53, 61, 67, 79, 97

13, 23, 51, 53, 61, 79, 97

13, 23, 53, 61, 67, 79, 97

13, 21, 23, 51, 53, 61, 67, 79, 97

## Divisibility Rules for 100.



Which of the following is a quick trick to tell if a number is divisible by 6?

The last digit is divisible by 6.

The sum of the digits is divisible by 6.

The number is divisible by 2 and 3.

The last digit is divisible by 2 and 3.

I don't care

## Divisibility Rules for 200.



Which of the following is a quick trick to tell if a number is divisible by 4?

the number is divisible by 2

the sum of the digits is divisible by 4

the number consisting of the last two digits is divisible by 4

the sum of the digits is divisible by 2

None of the above

## Divisibility Rules for 300.



The number 138 is divisible by

2,3,4,6

2 only

2,3,6

2,3,6,9

2,3,4,6,9



## Divisibility Rules for 400.



The number 544,632 is divisible by

only 2

2, 3, 4, 6, and 9

2 and 4

2, 3, 4, and 9

2, 3, 4, and 6

Surprise for 100.



Simplify:  $-4^2 + 5 \cdot (-3)^2$

61

-61

22

38

29



Surprise for 200.



What number system do we use to represent the digits 0-9?

Greek

Mayan

Arabic

Roman

European

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Surprise for 300.



Find least common multiple of 45 and 30

15

5

none of them

900

1350

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Surprise for 400.



Two numbers whose product is  $-24$  and whose sum is  $-10$

4,  $-6$

3,  $-8$

$-2$ , 12

$-4$ , 6

2,  $-12$