



# Integers

## ADDING INTEGERS

$$2 + 3 = 5$$

both positive signs

add, use positive sign

$$-2 + (-3) = -5$$

both negative signs

add, use negative sign

$$-2 + 3 = 1$$

different signs

find difference, use sign of

$$2 + (-3) = -1$$

number with larger absolute value

## SUBTRACTING INTEGERS

$$10 - 2$$

becomes

$$10 + (-2)$$

$$10 + (-2) = 8$$

$$10 - (-2)$$

becomes

$$10 + 2$$

$$10 + 2 = 12$$

$$-10 - (-2)$$

becomes

$$(-10) + 2$$

$$(-10) + 2 = -8$$

$$-10 - 2$$

becomes

$$(-10) + (-2)$$

$$(-10) + (-2) = -12$$

## MULTIPLYING INTEGERS

$$-2 (-3) = 6$$

same signs

multiply, use positive sign

$$2 (3) = 6$$

$$-2 (3) = -6$$

different signs

multiply, use negative sign

$$2 (-3) = -6$$

## DIVIDING INTEGERS

$$\frac{-10}{-2} = 5$$

$$\frac{10}{2} = 5$$

same signs

divide, use positive sign

$$\frac{10}{-2} = -5$$

$$\frac{-10}{2} = -5$$

different signs

divide, use negative sign.



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## Practice problems:

1.  $7+8=$

2.  $-6+(-5)=$

3.  $5+(-8)=$

4.  $-14+17=$

5.  $7-3=$

6.  $3-(-7)=$

7.  $-35-(-14)=$

8.  $-30-20=$

9.  $2(9)=$

10.  $-3(-5)=$

11.  $-9(4)=$

12.  $7(-6)=$

13.  $\frac{10}{2}=$

14.  $\frac{-8}{-2}=$

15.  $\frac{-12}{3}=$

16.  $\frac{16}{-4}$

## Answers

1. 15

2. -11

3. -3

4. 3

5. 4

6. 10

7. -21

8. -50

9. 18

10. 15

11. -36

12. -42

13. 5

14. 4

15. -4

16. -4