

## Multiplying/Dividing Numbers Different Sign Integers

**Rule 6:** When multiplying or dividing numbers with different signs, the answer is negative.

**Example:**

Simplify  $-3(+8)$ .

$$-3(+8) = -24.$$

Simplify the following.

1.  $(-4)(+8)$

2.  $(-2)(+11)$

3.  $+4(-7)$

4.  $-9(3)$

5.  $(-14)(+2)$

6.  $(10)(-3)$

7.  $20(-5)$

8.  $-6(+10)$

9.  $2(-8)$

10.  $(-2)(+9)$

11.  $11(-5)$

12.  $-4(25)$

13.  $(-42)/6$

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

15.  $80/(-10)$

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Example:

Simplify  $-3(+8)$ .

$$-3(+8) = -24.$$

**Simplify the following.**

1.  $-40 \div 5$

2.  $-30 \div 3$

3.  $-54 \div 9$

4.  $60 \div -12$

5.  $-16 \div 8$

6.  $-80 \div 8$

7.  $-20 \div 4$

8.  $-20 \div 2$

9.  $-10 \times 3$

10.  $4 \times -2$

11.  $-3 \times 4$

12.  $10 \div -10$

13.  $-120 \div 10$

14.  $-72 \div 6$

15.  $96 \div -8$

16.  $-6 \times 2$

17.  $-6 \times 3$

18.  $-12 \times 6$

19.  $-12 \times 2$

20.  $40 \div -5$

21.  $36 \div -4$

22.  $7 \times -11$

23.  $132 \div -12$

24.  $-55 \div 5$

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Example:

Simplify  $-3(+8)$ .

$$-3(+8) = -24.$$

**Simplify the following.**

1.  $50 \div -10$

2.  $-2 \div 2$

3.  $-24 \div 12$

4.  $-84 \div 12$

5.  $-72 \div 6$

6.  $24 \div -8$

7.  $-28 \div 7$

8.  $6 \times -7$

9.  $-15 \div 5$

10.  $15 \div -5$

11.  $-11 \times 6$

12.  $120 \div -12$

13.  $-88 \div 8$

14.  $14 \div -2$

15.  $-22 \div 11$

16.  $40 \div -10$

17.  $48 \div -12$

18.  $-1 \times 4$

19.  $6 \div -2$

20.  $4 \times -8$

21.  $-9 \times 11$

22.  $-84 \div 7$

23.  $9 \times -4$

24.  $77 \div -7$

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Example:

Simplify  $-3(+8)$ .

$$-3(+8) = -24.$$

Simplify the following.

1.  $-25 \div 5$

2.  $110 \div -10$

3.  $-10 \times 8$

4.  $-120 \div 10$

5.  $-10 \times 12$

6.  $-63 \div 9$

7.  $9 \times -7$

8.  $63 \div -7$

9.  $-2 \times 1$

10.  $-12 \div 3$

11.  $4 \times -10$

12.  $9 \times -7$

13.  $-1 \times 8$

14.  $5 \times -12$

15.  $8 \times -9$

16.  $50 \div -5$

17.  $11 \times -4$

18.  $-12 \div 4$

19.  $-3 \times 3$

20.  $-11 \times 11$

21.  $-4 \times 2$

22.  $8 \times -7$

23.  $108 \div -12$

24.  $-11 \times 4$