

WORKSHEET 1.17: MULTIPLYING TWO INTEGERS

Follow the steps below to multiply two integers:

1. Multiply the absolute values of the numbers.
2. Determine the sign of the product.
 - If both integers are positive or both are negative, the product is positive.
 - If one integer is positive and the other is negative, the product is negative.
 - If one integer is zero, the product is neither positive nor negative. It is zero.

EXAMPLES

$3 \times (-5) = -15$

$-3 \times (-6) = 18$

$-4 \times 5 = -20$

$5 \times 9 = 45$

DIRECTIONS: Find each product.

1. 8×4

2. $5 \times (-4)$

3. $-3 \times (-2)$

4. -6×3

5. $-7 \times (-9)$

6. -12×7

7. $-16 \times (-5)$

8. -14×4

9. -3×9

10. $-10 \times (-6)$

11. $-2 \times (-2)$

12. $4 \times (-12)$



CHALLENGE: Do you agree with this statement? The product of two or more integers with the same sign is always positive. Explain your answer.

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EXAMPLES

$3 \times (-5) = -15$

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DIRECTIONS: Find each product.

1. 8×4

32

2. $5 \times (-4)$

-20

3. $-3 \times (-2)$

6

4. -6×3

-18

5. $-7 \times (-9)$

63

6. -12×7

-84

7. $-16 \times (-5)$

80

8. -14×4

-56

9. -3×9

-27

10. $-10 \times (-6)$

60

11. $-2 \times (-2)$

4

12. $4 \times (-12)$

-48



CHALLENGE: Do you agree with this statement? The product of two or more integers with the same sign is always positive. Explain your answer.

Disagree. If there are an even number of negative numbers, the product will be positive. If there are an ODD number of negative numbers, the product will be negative