

Name _____

Date _____

Integer Multiplication and Division Rules

If you multiply or divide two integers with the **same sign**, the answer will be **positive**.

$$7 \times 8 = 56$$

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

$$36 \div 9 = 4$$

$$-24 \div (-4) = 6$$

If you multiply or divide two integers with **different signs**, the answer will be **negative**.

$$6 \times (-2) = -12$$

$$-8 \times 4 = -32$$

$$30 \div (-3) = -10$$

$$-48 \div 8 = -6$$

Use integer multiplication and division rules to determine if the answer to each problem will be positive or negative. The first one has been done for you.

| | | | |
|------------------------------|----------------------------|-------------------------------|-----------------------------|
| -3×2 $+$ $-$ | $-16 \div (-4)$ $+$ $-$ | $5 \times (-6)$ $+$ $-$ | $12 \div (-3)$ $+$ $-$ |
| $-18 \div 6$ $+$ $-$ | 7×9 $+$ $-$ | $-60 \div (-6)$ $+$ $-$ | $-8 \times (-5)$ $+$ $-$ |
| $13 \times (-33)$ $+$ $-$ | $-250 \div 25$ $+$ $-$ | $-24 \times (-36)$ $+$ $-$ | $-560 \div 8$ $+$ $-$ |

Solve each problem. Use integer multiplication and division rules to help!

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|--|--|---|---|
| $-2 \times 5 = \underline{\hspace{2cm}}$ | $-16 \div (-8) = \underline{\hspace{2cm}}$ | $60 \div (-5) = \underline{\hspace{2cm}}$ | $11 \times (-1) = \underline{\hspace{2cm}}$ |
| $-18 \div (-2) = \underline{\hspace{2cm}}$ | $28 \div (-4) = \underline{\hspace{2cm}}$ | $7 \times (-8) = \underline{\hspace{2cm}}$ | $-8 \times 11 = \underline{\hspace{2cm}}$ |
| $-70 \times (-3) = \underline{\hspace{2cm}}$ | $-60 \div (-2) = \underline{\hspace{2cm}}$ | $8 \times (-90) = \underline{\hspace{2cm}}$ | $-80 \div 40 = \underline{\hspace{2cm}}$ |
| $300 \div (-6) = \underline{\hspace{2cm}}$ | $-80 \times 50 = \underline{\hspace{2cm}}$ | $-200 \div 40 = \underline{\hspace{2cm}}$ | $-70 \times (-60) = \underline{\hspace{2cm}}$ |