

MIXED OPERATIONS WITH SIGNED NUMBERS

ADDITION/SUBTRACTION:

same sign: *add*, keep sign

different signs: *Subtract*, keep sign of "larger"

MULTIPLICATION/DIVISION:

same sign: *positive*

different signs: *negative*

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Examples:

$$\begin{array}{r} 1. \ -5 + -6 \\ -5 - 6 \\ -11 \end{array}$$

$$\begin{array}{r} 2. \ -5 - 6 \\ -11 \end{array}$$

$$\begin{array}{r} 3. \ -5(-6) \\ 30 \end{array}$$

$$\begin{array}{r} 4. \ -5 - -6 \\ -5 + 6 \\ 1 \end{array}$$

$$\begin{array}{r} 5. \ \frac{6}{-2} \\ -3 \end{array}$$

$$\begin{array}{r} 6. \ \frac{6}{-10} \\ -\frac{3}{5} \end{array}$$

*See it as a fraction and reduce

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$$\begin{array}{r} 7. \ -9 - 3 \\ -12 \end{array}$$

$$\begin{array}{r} 8. \ -4 + -3 \\ -4 - 3 = -7 \end{array}$$

$$\begin{array}{r} 9. \ -2(-5) \\ 10 \end{array}$$

$$\begin{array}{r} 10. \ \frac{9}{-3} \\ -3 \end{array}$$

$$\begin{array}{r} 11. \ -8 + 7 \\ -1 \end{array}$$

$$\begin{array}{r} 12. \ -5(-3) \\ 15 \end{array}$$

$$\begin{array}{r} 13. \ 3 - -5 \\ 3 + 5 = 8 \end{array}$$

$$\begin{array}{r} 14. \ 8 - 13 \\ -5 \end{array}$$

$$\begin{array}{r} 15. \ \frac{-7}{14} \\ -\frac{1}{2} \end{array}$$

$$\begin{array}{r} 16. \ -7 - -5 \\ -7 + 5 \\ -2 \end{array}$$

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Division Involving Zero

$$\frac{N}{0}$$

$$\frac{0}{K}$$

No - zeros in
denominator
answer: undefined

OK - zeros in
numerator
answer: 0

$$\text{Ex: } \frac{0}{5} = 0 \quad \frac{-9}{0} = \text{undefined}$$

$$\frac{10}{0} = \text{undefined}$$

$$\frac{0}{-3} = 0$$

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HOMEWORK:

Worksheet - Mixed Integer Operations

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