

Name _____ Date _____

Dividing Integers

When dividing integers, follow these rules.

Rule 1: To divide numbers with the same sign, divide and give the answer a positive sign.

Rule 2: To divide numbers with different signs, divide and give the answer a negative sign.

Divide $\frac{-15}{-3}$

Use Rule 1.

$$\frac{-15}{-3} = 5$$

Divide $\frac{18}{-6}$

Use Rule 2.

$$\frac{18}{-6} = -3$$

Divide $\frac{-20}{4}$

Use Rule 2.

$$\frac{-20}{4} = -5$$

Divide.

1. $\frac{-12}{3} = -4$

$$\frac{-14}{-2}$$

$$\frac{20}{-10}$$

$$\frac{-25}{5}$$

2. $\frac{42}{6}$

$$\frac{-36}{6}$$

$$\frac{32}{-4}$$

$$\frac{90}{9}$$

3. $\frac{48}{8}$

$$\frac{52}{-13}$$

$$\frac{-63}{7}$$

$$\frac{-72}{9}$$

4. $\frac{60}{15}$

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

$$\frac{-10}{10}$$

$$\frac{30}{3}$$

5. $\frac{-34}{17}$

$$\frac{81}{-9}$$

$$\frac{24}{-6}$$

$$\frac{27}{9}$$

6. $\frac{35}{7}$

$$\frac{40}{-5}$$

$$\frac{-36}{9}$$

$$\frac{-49}{7}$$

7. $\frac{9}{3}$

$$\frac{-18}{2}$$

$$\frac{15}{-5}$$

$$\frac{-8}{4}$$

8. $\frac{11}{1}$

$$\frac{-12}{-12}$$

$$\frac{-20}{10}$$

$$\frac{-21}{7}$$

9. $\frac{24}{8}$

$$\frac{-2}{1}$$

$$\frac{-28}{-14}$$

$$\frac{13}{13}$$

10. $\frac{44}{-11}$

$$\frac{-30}{3}$$

$$\frac{32}{4}$$

$$\frac{22}{-2}$$

11. $\frac{50}{25}$

$$\frac{75}{-3}$$

$$\frac{-63}{9}$$

$$\frac{19}{1}$$

Dividing Integers

Answer Key

- | | | | | |
|-----|----|-----|----|-----|
| 1. | -4 | 7 | -2 | -5 |
| 2. | 7 | -6 | -8 | 10 |
| 3. | 6 | -4 | -9 | -8 |
| 4. | 4 | -4 | -1 | 10 |
| 5. | -2 | -9 | -4 | 3 |
| 6. | 5 | -8 | -4 | -7 |
| 7. | 3 | -9 | -3 | -2 |
| 8. | 11 | 1 | -2 | -3 |
| 9. | 3 | -2 | 2 | 1 |
| 10. | -4 | -10 | 8 | -11 |
| 11. | 2 | -25 | -7 | 19 |

