

Reciprocal AKA Multiplicative Inverse Worksheet Answer Key

Turn the Beat Around

Solve.

1. $2 - 2$

$$\frac{1}{0} = \text{undefined}$$

2. 3

$$\frac{1}{3}$$

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

$$8$$

4. $-\frac{4}{3}$

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

5. $\sqrt{2}$

$$\frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$

6. $|4 + (-7)|$

$$\frac{1}{|-3|} = \frac{1}{3}$$

7. 0.25

$$\frac{1}{0.25} = \frac{1}{\frac{1}{4}} = 4$$

8. $-2\frac{1}{3}$

$$-\frac{1}{\frac{1}{3}} = -\frac{3}{1}$$

9. $x - y$

$$\frac{1}{x - y} \text{ if } x \neq y$$

10. $\frac{u - v}{u^2 - v^2}$

$$\frac{u^2 - v^2}{u - v} = \frac{(u - v)(u + v)}{u - v} = u + v$$

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