

Name: Class:

Rational numbers: equal or not equal.

 1. Which sign makes the following statements true? Complete with \neq or $=$

$$\frac{-18}{27} \quad \square \quad \frac{-6}{18}$$

$$\frac{22}{25} \quad \square \quad 0.25$$

$$\frac{-28}{-35} \quad \square \quad \frac{4}{5}$$

$$\frac{-80}{10} \quad \square \quad \frac{8}{1}$$

$$70 \quad \square \quad 70.0$$

$$4 \frac{2}{4} \quad \square \quad 7.89$$

2. Write True or False for each of the following statements.

0.5 is equal to a half. _____

Every rational number is a fraction. _____

Every fraction is a rational number. _____

Every decimal is a rational number. _____

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1. Which sign makes the following statements true? Complete with \neq or $=$

$$\frac{-18}{27} \quad \square \quad \frac{-6}{18}$$

Reduce the fractions to their lowest form.

$$\frac{-18}{27} = \frac{-9 \times 2}{9 \times 3} = \frac{-2}{3}, \quad \frac{-6}{18} = \frac{-6}{6 \times 3} = \frac{-1}{3}$$

$$\frac{-18}{27} \quad \square \quad \frac{-6}{18} \quad \text{is same as} \quad \frac{-2}{3} \quad \square \quad \frac{-1}{3}$$

Now, compare.

$$\text{Since } \frac{-2}{3} \neq \frac{-1}{3}$$

$$\text{So, } \frac{-18}{27} \neq \frac{-6}{18}$$

$$\frac{-28}{-35} \quad \square \quad \frac{4}{5}$$

$$\frac{22}{25} \quad \square \quad 0.25$$

$$4 \frac{2}{4} \quad \square \quad 7.89$$

$$70 \quad \square \quad 70.0$$

$$\frac{-80}{10} \quad \square \quad \frac{8}{1}$$

2. Write True or False for each of the following statements.

0.5 is equal to a half true

Every rational number is a fraction. false

Every fraction is a rational number. true

Every decimal is a rational number. false