

Name: ..... Class: .....

Rational numbers: equal or not equal.

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

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

$$\frac{12}{15} \quad \square \quad 0.25$$

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

$$\frac{-60}{10} \quad \square \quad \frac{6}{1}$$

$$50 \quad \square \quad 50.0$$

$$3 \frac{2}{3} \quad \square \quad 7.89$$

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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## Rational numbers: equal or not equal.

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

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

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.

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

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

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

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$$50 \quad \square \quad 50.0$$

$$\frac{-60}{10} \quad \square \quad \frac{6}{1}$$

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

0.5 is equal to a half trueEvery rational number is a fraction. falseEvery fraction is a rational number. trueEvery decimal is a rational number. false