

Concept CW_Grade-7_Rational Numbers

Equivalence and Standard Form of Rational Numbers

Choose correct answer(s) from the given choices

- (1) Which of the following is/are pair(s) of equivalent rational numbers?

a. $\frac{-2}{7}, \frac{20}{71}$

b. $\frac{4}{13}, \frac{28}{92}$

c. $\frac{16}{-25}, \frac{-32}{50}$

d. $\frac{-23}{26}, \frac{69}{78}$

- (2) Reduce the rational number $\frac{20}{15}$ to the lowest form.

a. $\frac{20}{3}$

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

c. $\frac{15}{20}$

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

- (3) If $\frac{-8}{X} = \frac{X}{8}$, then X is _____.

a. not a rational number

b. a whole number

c. a rational number

d. an integer

- (4) If $\frac{p}{q} = \frac{m}{n}$ then which of the following is always true?

a. $\frac{p}{n} = \frac{m}{q}$

b. $\frac{q}{p} = \frac{m}{n}$

c. $p \times m = n \times q$

d. $p \times n = m \times q$

(5) Which of the following rational numbers is in the standard form?

a. $\frac{40}{56}$

b. $\frac{27}{63}$

c. $\frac{68}{75}$

d. $\frac{63}{77}$

Fill in the blanks

(6) Fill in the blank to make the two rational numbers equivalent.

A) $\frac{\boxed{}}{29} = \frac{72}{116}$

B) $\frac{8}{20} = \frac{112}{\boxed{}}$

(7) If $\frac{4}{-5} = \frac{-12}{X}$, then $X = \underline{\hspace{2cm}}$.

(8) Write a multiple of $\frac{-7}{-6}$ rational number.

(9) Write the standard form of the rational number $\frac{69}{-92}$.