

## 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)  $\frac{\square}{29} = \frac{72}{116}$

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

(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  $\frac{69}{-92}$ .