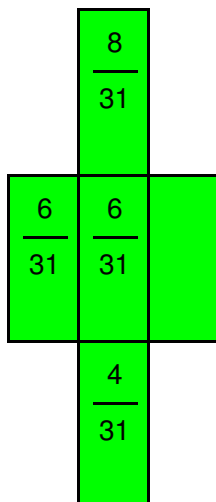


Answer the questions

- (1) If the sum of both the horizontal and the vertical rows is same, find the missing rational number.



- (2) Find the difference between the greatest and the least numbers of $\frac{-7}{5}$, $\frac{3}{16}$, $\frac{2}{7}$, $\frac{3}{24}$.

- (3) Solve the following and simplify to lowest term:

A) $\frac{-3}{2} + \frac{6}{5} + \frac{5}{5} + \frac{-5}{3} + \frac{-4}{4}$

B) $\frac{1}{3} + \frac{2}{4} + \frac{-2}{5} + \frac{-1}{2} + \frac{6}{6}$

- (4) Is $\frac{6}{11}$ the multiplicative inverse of $-1\frac{5}{6}$? Why or why not?

- (5) What is the multiplicative inverse of $\frac{6}{16}$?

- (6) Reduce the rational number $\frac{18}{15}$ to the lowest form.

- (7) Name the property that is reflected in the following expression:

A) $\frac{5}{-11} \times \frac{-11}{5} = 1$

B) $\frac{1}{24} \times \frac{24}{1} = 1$

(8) Find the following and simplify it to lowest term:

A) $\frac{5}{5} \times \frac{-2}{5} \times \frac{-3}{5}$

B) $\frac{1}{3} \times \frac{-4}{4} \times \frac{-4}{4}$

(9) Write the rational number that are equal to their reciprocals.

Choose correct answer(s) from the given choices

(10) Which of the following statements is false?

a. Every rational number is a fraction

b. Any number, when divided by 10 is a rational number

c. Every fraction is a rational number

d. Every negative number is a rational number

(11) Which of the statements given below is false?

a. There is no fraction that cannot be represented as a rational number.

b. All the negative numbers can be represented as rational numbers.

c. A decimal number cannot be a rational number

d. There is no integer that cannot be represented as a rational number.

(12) Which of the following statements is true for a rational number $\frac{a}{b}$.

a. The denominator b cannot be 0

b. The numerator a can be a decimal number

c. The denominator b cannot be 1

d. The numerator a cannot be 1

(13) $\frac{-4}{0}$ is _____.

a. not a rational number

b. a positive rational number

c. a negative rational number

d. either positive or negative rational number

(14) Which of the following is a rational number(s) ?

a. $\frac{-7}{15}$

b. $\frac{-5}{-13}$

c. $\frac{6}{-13}$

d. All of these

Fill in the blanks

(15) Add the following rational numbers.

A) $\frac{5}{25} + \frac{12}{25} = \frac{\boxed{}}{\boxed{}}$

B) $\frac{12}{25} + \frac{4}{25} = \frac{\boxed{}}{\boxed{}}$

C) $\frac{3}{23} + \frac{9}{23} = \frac{\boxed{}}{\boxed{}}$

D) $\frac{17}{34} + \frac{12}{34} = \frac{\boxed{}}{\boxed{}}$

E) $\frac{4}{19} + \frac{14}{19} = \frac{\boxed{}}{\boxed{}}$

F) $\frac{15}{47} + \frac{20}{47} = \frac{\boxed{}}{\boxed{}}$



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Answers

(1) $\frac{6}{31}$

(2) $\frac{59}{35}$

(3) A) $\frac{-59}{30}$

B) $\frac{14}{15}$

(4) No - The product of fraction and its multiplicative inverse must be equal to 1.

(5) $\frac{16}{6}$

(6) $\frac{6}{5}$

(7) A) Multiplicative Inverse

B) Multiplicative Inverse

(8) A) $\frac{6}{25}$

B) $\frac{1}{3}$

(9) 1, -1

(10) a. Every rational number is a fraction

(11) c. A decimal number cannot be a rational number

(12) a. The denominator b cannot be 0

(13) a. not a rational number

(14) d. All of these

(15) A) $\frac{5}{25} + \frac{12}{25} = \frac{\boxed{17}}{\boxed{25}}$ B) $\frac{12}{25} + \frac{4}{25} = \frac{\boxed{16}}{\boxed{25}}$ C) $\frac{3}{23} + \frac{9}{23} = \frac{\boxed{12}}{\boxed{23}}$

D) $\frac{17}{34} + \frac{12}{34} = \frac{\boxed{29}}{\boxed{34}}$ E) $\frac{4}{19} + \frac{14}{19} = \frac{\boxed{18}}{\boxed{19}}$ F) $\frac{15}{47} + \frac{20}{47} = \frac{\boxed{35}}{\boxed{47}}$

