

Grade 7 Rational Numbers Worksheets

Grade 7 Maths Rational Numbers Multiple Choice Questions (MCQs)

1. **Associative property is not followed in**
(a) whole numbers
(b) integers
(c) natural numbers
(d) none of these
2. is the identity for the addition of rational numbers.
(a) 1
(b) 0
(c) -1
(d) $\frac{1}{2}$
3. is the multiplicative identity for rational numbers.
(a) 1
(b) 0
(c) -1
(d) $\frac{1}{2}$
4. **The additive inverse of $\frac{7}{5}$ is:**
(a) 1
(b) 0
(c) $-\frac{7}{5}$
(d) $\frac{7}{5}$
5. **Zero has reciprocal.**
(a) 1
(b) 2
(c) 3
(d) no
6. **The numbers and are their own reciprocal.**
(a) 1 and 0
(b) 1 and -1
(c) -1 and 0
(d) none of these
7. **The reciprocal of -5 is**
(a) 5
(b) 1

(c) $-\frac{1}{5}$

(d) $\frac{1}{5}$

8. The product of two rational numbers is always a

(a) whole number

(b) integer

(c) natural number

(d) rational number

9. Simplify: $\frac{-4}{5} \times \frac{3}{7} \times \frac{15}{16} \times \left\{ \frac{-14}{9} \right\}$

(a) 1

(b) 0

(c) 2

(d) $\frac{1}{2}$

10. What number should be added to $\frac{7}{12}$ to get $\frac{4}{15}$?

(a) $-\frac{9}{60}$

(b) $-\frac{11}{30}$

(c) $\frac{51}{60}$

(d) $\frac{1}{20}$

11. The reciprocal of a positive rational number is

(a) negative

(b) positive

(c) zero

(d) none of these

12. Which of the rational numbers $\frac{-5}{16}, \frac{-13}{24}, \frac{3}{-4}, \frac{7}{-12}$ is the smallest?

(a) $\frac{-5}{16}$

(b) $\frac{-13}{24}$

(c) $\frac{3}{-4}$

(d) $\frac{7}{-12}$

13. Rational number $\frac{3}{40}$ is equal to:

(a) 0.75

(b) 0.12

(c) 0.012

(d) 0.075

14. A rational number between 3 and 4 is:

(a) $\frac{3}{2}$

(b) $\frac{4}{3}$

(c) $\frac{7}{2}$

(d) $\frac{7}{4}$

15. Find x such that $\frac{-1}{5} = \frac{8}{x}$

- (a) -5
- (b) -40
- (c) any number
- (d) none of these

16. Find x such that $\frac{-3}{8}$ and $\frac{x}{-24}$ are equivalent rational numbers.

- (a) 3
- (b) 9
- (c) 8
- (d) none of these

17. Find the value of $(-6) \div \frac{2}{3}$.

- (a) -9
- (b) 9
- (c) -4
- (d) none of these

18. Rewrite the rational number $\frac{-18}{48}$ in the simplest form.

- (a) $\frac{-9}{24}$
- (b) $\frac{-3}{8}$
- (c) $\frac{-3}{8}$
- (d) none of these

19. Write the next rational number in the pattern: $\frac{-1}{4}, \frac{-2}{8}, \frac{-3}{12}, \dots$

- (a) $\frac{-4}{15}$
- (b) $\frac{-4}{16}$
- (c) $\frac{-4}{20}$
- (d) none of these

20. Write the next rational number in the

pattern: $\frac{-3}{5}, \frac{-6}{10}, \frac{-9}{15}, \frac{-12}{20}, \dots$

- (a) $\frac{12}{25}$
- (b) $\frac{15}{25}$
- (c) $\frac{-15}{25}$
- (d) none of these

Grade 7 Maths Rational Numbers Fill in the boxes with the correct symbol out of >, < and =

$$1. \frac{-7}{4} \square \frac{-8}{5}$$

$$2. \frac{-5}{11} \square \frac{5}{11}$$

$$3. \frac{1}{-3} \square \frac{-1}{4}$$

$$4. \frac{-5}{7} \square \frac{2}{3}$$

$$5. \frac{-4}{5} \square \frac{-5}{7}$$

$$6. \frac{-7}{8} \square \frac{14}{-16}$$

$$7. \frac{-8}{5} \square \frac{-5}{4}$$

$$8. 0 \square \frac{-7}{6}$$

$$9. \frac{-5}{-11} \square \frac{5}{-11}$$

$$10. \frac{3}{4} \square \frac{-2}{5}$$

Grade 7 Maths Rational Numbers Very Short Answer Type Questions

Simplify:

$$1. \frac{(-4)}{9} \times \frac{3}{5} \times \frac{(-9)}{10}$$

$$2. \left[\frac{2}{7} + \frac{3}{49} \right] \left[\frac{-7}{15} \right]$$

$$3. \frac{2}{3} + \frac{3}{4} + \frac{1}{12}$$

$$4. (4.3 - 2.3) \times 6.3$$

$$5. \left[\frac{-28}{27} \right] \div \left[\frac{-5}{9} \right]$$

$$6. \frac{-4}{5} \div (-3)$$

Grade 7 Maths Rational Numbers Short Answer Type Questions

1. Which is greater in the following numbers?

$$-3\frac{2}{7}, -3\frac{4}{5}$$

2. The product of two rational numbers is $\frac{-4}{5}$. If one of them is $\frac{8}{35}$, find the other.

3. Arrange $\frac{-7}{8}$, $\frac{-5}{6}$, $\frac{-3}{4}$ in the ascending order.

4. Find the reciprocal of $\frac{-7}{26} + \left(\frac{-11}{39} \right)$

Grade 7 Maths Rational Numbers Long Answer Type Questions

1.

(a) What should be added to $\frac{-5}{8}$ to get $\frac{2}{9}$

(b) Find three rational between 0 and 1.

2. Jaspal donates $(\frac{1}{5})^{th}$ part of his monthly income and deposited $(\frac{1}{6})^{th}$ part in the bank and expenditure the remaining income.

(a) Find the part of expenditure of his monthly income.

(b) State two good habits of Jaspal mentioned on the basis of above questions.

3. Satpal walks $\frac{2}{3}$ km from a place P, towards east and then from there $1\frac{5}{7}$ km towards west. Where will he be now from P?