



**GRADE 8<sup>TH</sup> MATHS**  
**CHAPTER 1**

# Rational Numbers

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### MCQ Questions for Class 8 Maths Chapter 1 Rational Numbers

1. Which of the following is the reciprocal of the reciprocal of a rational number?

- (a) -1
- (b) 1
- (c) 0
- (d) The number itself

2. Write the additive inverse of  $4/5$ .

- (a) 1
- (b)  $-4/5$
- (c)  $4/5$
- (d) 0

3. Which of the following is the product of  $(-7/8)$  and  $4/21$ ?

- (a)  $-1/6$
- (b) 12
- (c)  $-63/16$
- (d)  $-16/147$

4. Which of the following is the reciprocal of a rational number?

- (a) -1
- (b) 1
- (c) 2
- (d) Both (a) and (b)

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5. Which of the following is a rational number between  $1/4$  and  $1/3$  ?

- (a)  $7/24$
- (b)  $8/15$
- (c)  $13/48$
- (d) Both (a) and (c)

6. \_\_\_\_ is not associative for rational numbers.

- (a) Subtraction or Division
- (b) Addition or Multiplication
- (c) Addition or Division
- (d) Multiplication or Division

7. What is the additive inverse of  $-2/3$ ?

- (a) 0
- (b) 1
- (c)  $2/3$
- (d)  $-2/3$

8. By what rational number should  $-3/5$  be multiplied to obtain 21?

- (a)  $507/4$
- (b) 35
- (c) -35
- (d) 507

7. What is the sum of the additive inverse and multiplicative inverse of 2?

- (a)  $3/2$

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(b)  $-3/2$

(c)  $1/2$

(d)  $-1/2$

8. Which of the following is the identity element under addition?

(a) 1

(b) -1

(c) 0

(d) None of these

9. Which among the following is a rational number equivalent to  $-5/-3$  ?

(a)  $-25/15$

(b)  $25/-15$

(c)  $25/15$

(d)  $-25/30$

10. For any three rational numbers a, b and c,  $a + (b + c) =$  \_\_\_\_\_.

(a)  $(a + b) + c$

(b)  $(a + b) - c$

(c)  $(a - b) + c$

(d)  $(a - b) - c$

11. A number which can be written in the form,  $p/q$  where p and q are integers and \_\_\_\_ is called a rational number.

(a)  $q = 0$

(b)  $q \neq 0$

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(c)  $q = 1$

(d) None of these

12. The value of  $(5/4) - (8/3)$  is:

(a)  $17/12$

(b)  $-17/12$

(c)  $12/17$

(d)  $-12/17$

13. Which of the following is the reciprocal of the reciprocal of a rational number?

(a) -1

(b) 0

(c) The number itself

(d) None of these

14. Find the multiplicative inverse of  $1/4$ .

(a) 4

(b)  $-1/4$

(c) -4

(d)  $1/4$

15. Find the reciprocal of -2.

(a) 2

(b) -2

(c)  $-1/2$

(d) None of these

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16. Which number is in the middle if  $-1/6$ ,  $4/9$ ,  $6/-7$ ,  $2/5$  and  $-3/4$  arranged in descending order?

- (a)  $2/5$
- (b)  $4/9$
- (c)  $-1/6$
- (d)  $-6/7$

17. 1 is the \_\_\_\_\_ for rational numbers.

- (a) Multiplicative identity
- (b) Addition of zero
- (c) Additive identity
- (d) None of these

18.  $17/11 - 6/11$

- (a) 6
- (b) -1
- (c) 1
- (d) 3

19. Which of the following is the Multiplicative identity for rational numbers?

- (a) 1
- (b) -1
- (c) 0
- (d) None of these

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20. Which of the following is the Multiplicative identity for rational numbers?

- (a) 1
- (b) -1
- (c) 0
- (d) None of these

21. Find the multiplicative inverse of  $2/9$ .

- (a)  $-9/2$
- (b)  $9/2$
- (c)  $-2/9$
- (d)  $2/9$

22. Which of the following is the product of  $7/8$  and  $-4/21$ ?

- (a)  $-1/6$
- (b)  $1/12$
- (c)  $-16/63$
- (d)  $-147/16$

