पुना International School

Shree Swaminarayan Gurukul, Zundal

WORKSHEET - 1

Class 8 **CHAPTER – 1 RATIONAL NUMBER**

I.MULTIPLE CHOICE QUESTION:

1. The sum of the rational numbers – 8/19 and -4/57 is _____

(a) -5/57 (b) 7/22 (c) -28/57 (d) 4/27

2. What number should be added to 3/8 to get -1/24?

(a) -5/12 (b) -7/23 (c) 31/72 (d) 2/33

3. Which of the rational numbers 4/9, -5/6, -7/-12 and 11/-24 is the smallest?

(a) 4/9 (b) -5/6 (c) -7/-12 (d) 11/-24

4. Which of the rational numbers -4/9, 5/-12, 7/-18, 2/-3 is the greatest?

(a) 7/-18 (b) -4/9 (c) 2/-3 (d) 5/-12

5. Simplify: 2/3 + -4/5 + 7/15 + -11/20

(a) -1/5 (b) -13/60 (c) -4/15 (d) – 7/30

6. What number should be subtracted from -3/4 so as to get 5/6?

(a) -3/10 (b) -5/24 (c) -19/12 (d) 9/25

7. Which of the following rational numbers is in the standard form?

(a) -9/28 (b) -26/78 (c) –14/16 (d) 48/-96

8. The sum of two rational numbers is -7. If one of the numbers is –15/19, the other number is _____

(a) -21/10 (b) -57/16 (c) 7/9 (d) -118/19

9. Which of the following forms a pair of equivalent rational numbers?

(a) 24/40 and 35/50 (b) -25/35 and 55/-77 (c) -8/15 and -24/48

(d) 9/72 and -3/21

10. The value of {-8/13 × 26/-3} is _____

(a) -8/13 (b)/26 (c) -4/13 (d) 16/3

11. The reciprocal of a negative rational number _____

(a) is a positive rational number

(b) is a negative rational number

(c) can be either a positive or a negative rational number

(d) does not exist

12. The value of (- 16/21 ÷ -4/3) is _____

(a) -3/10 (b) -7/21 (c) 4/7 (d) -7/6

13. Fill in the blanks: 5/12 ÷ (_____) = -35/18

(a) -21/36 (b) -12/19 (c) -5/18 (d) -3/14

14. The product of two numbers is -20/9. If one of the numbers is 4, find the other.

(a) –5/9 (b) 3/11 (c) 12/39 (d) –9/11

15. Add the following rational numbers:

(i) -2/5 and 4/5 (ii) -6/11 and -4/11 (iii) -11/8 and 5/8

(iv) -7/3 and 1/3 (v) 5/6 and -1/6 (vi) -17/15 and -1/15

16. Subtract the first rational number from the second in each of the following:

(i) 3/8, 5/8 (ii) -7/9, 4/9 (iii) -2/11, -9/11

(iv) 11/13, -4/13 (v) 1/4, -3/8 (vi) -2/3, 5/6

17. Evaluate each of the following:

(i) 2/3 - 3/5 (ii) -4/7 - 2/(-3) (iii) 4/7 - (-5)/(-7)

(iv) -2 - 5/9 (v) -3/-8 - (-2)/7 (vi) -4/13 - (-5)/26

(vii) -5/14 - (-2)/7 (viii) 13/15 - 12/25.

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WORKSHEET – 2

CLASS 8 **CHAPTER – 1 RATIONAL NUMBER**

1. Add the following rational numbers:

(i) 5/6 and 7/9 (ii) 3/4 and -3/5 (iii) 5/8 and-7/2

(iv) -8/9 and 11/6 (v) -5/16 and 7/24 (vi) 7/-18 and 8/27

2. Simplify:

(i) 8/9 + -11/6 (ii) -5/16 + 7/24 (iii) 1/-12 + 2/-15

(iv) -8/19 + -4/57 (v) 7/9 + 3/-4 (vi) 5/26 + 11/-39

3. Add and express the sum as a mixed fraction:

(i) -12/5 + 43/10 (ii) 24/7 + -11/4 (iii) -31/6 + -27/8

4. Subtract the first rational number from the second in each of the following:

(i) 3/8, 5/8 (ii) -7/9, 4/9 (iii) -2/11, -9/11

(iv) 11/13, -4/13 (v) 1/4, -3/8 (vi) -2/3, 5/6

5. Evaluate each of the following:

(i) 2/3 - 3/5 (ii) -4/7 - 2/(-3) (iii) 4/7 - (-5)/(-7)

(iv) -2 - 5/9 (v) -3/-8 - (-2)/7 (vi) -4/13 - (-5)/26

6. The sum of the two numbers is 5/9. If one of the numbers is 1/3, find the other.

7. The sum of two numbers is -1/3. If one of the numbers is -12/3, find the other.

8. The sum of the two numbers is -4/3. If one of the numbers is -5, find the other.

9. The sum of the two rational numbers is -8. If one of the numbers is -15/7, find the other.

10. What should be added to -7/8 so as to get 5/9?

11. What number should be added to -5/11 so as to get 26/33?

12. What number should be added to -5/7 to get -2/3?

13. What number should be subtracted from -5/3 to get 5/6?

14. What number should be subtracted from 3/7 to get 5/4?

15. Fill in the blanks:

(i) -4/13 - (-3)/13 = ...

(ii) (-9)/14 + ... = -1

(iii) (-7)/9 + ... = 3

(iv) ..... + 15/23 = 4

16. Multiply each of the following rational numbers:

(i) 7/11 by 5/4 (ii) 5/7 by (-3/4)

(iii) (-2)/9 by 5/11 (iv) -3/17 by -5/-4

17. Find the product of each of the following:

(i) 3/5 × (-7)/8 (ii) (-9)/2 × 5/4 (iii) (-6)/11 × 5/3

(iv) (-2)/3 × 6/7 (v) (-12)/5 × 10/-3 (vi) 25/-9 × 3/-10

18. Find the reciprocal of:

(i) 13/25 (ii) (-17)/12 (iii) (-7)/24

(iv) 18 (v) -16

20. Fill in the blanks:

(i) The product of a rational number and its reciprocal is _____ .

(ii) Zero has _____ reciprocal.

(iii) The numbers _____ and _____ are their own reciprocals.

(iv) Zero is _____ the reciprocal of any number.

(v) The reciprocal of a, where a ≠ 0, is _____ .

(vi) The reciprocal of 1/a, where a ≠ 0, is _____ .

(vii) The reciprocal of a positive rational number is _____ .

(viii) The reciprocal of a negative rational number is _____ .

(ix) 9/8 ÷ (_____) = -3/2

(x) (_____) ÷ (-7/5) = 10/19