

Worksheet #3: Adding and Subtracting Rational Numbers

Evaluate.

1. $\frac{1}{3} + \left(-\frac{2}{3}\right)$

2. $-\frac{2}{3} + 3$

3. $-\frac{2}{3} + \left(-\frac{3}{5}\right)$

4. $-\frac{1}{4} + \frac{-1}{2}$

5. $\frac{3}{8} - \left(-\frac{1}{4}\right)$

6. $-\frac{3}{5} + \frac{1}{-10}$

7. $-1\frac{2}{3} - \left(-2\frac{1}{2}\right)$

8. $-\frac{-2}{-3} + \frac{-6}{5}$

9. $\sqrt{\frac{1}{9}} - \sqrt{\frac{121}{36}} - \sqrt{\frac{49}{81}}$

10. $\frac{1}{-6} - \frac{3}{-4} + \frac{-1}{3}$

11. $\left(-1\frac{3}{4}\right) + \left(-1\frac{1}{5}\right) - \left(-2\frac{1}{2}\right)$

Answers

1. $-\frac{1}{3}$ 2. $2\frac{1}{3}$ 3. $-1\frac{4}{15}$ 4. $-\frac{3}{4}$ 5. $\frac{5}{8}$ 6. $-\frac{1}{2}$ 7. $\frac{5}{6}$ 8. $-1\frac{13}{15}$ 9. $-2\frac{5}{18}$ 10. $\frac{1}{4}$ 11. $-\frac{9}{20}$

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Worksheet #4- Rational Numbers Review

Evaluate each of the following by giving neat, complete and organized solutions on lined paper.

1. $\frac{-3}{4} \times \frac{8}{9}$

2. $\frac{-7}{8} + \frac{3}{-4}$

3. $\frac{-8}{3} \div \frac{4}{-5}$

4. $\frac{-2}{-5} \times \frac{-1}{4}$

5. $-\left(-\frac{4}{3}\right) + \frac{1}{4}$

6. $5\frac{3}{5} \div \left(\frac{-7}{-10}\right)$

7. $-\frac{3}{4} - \left(-1\frac{1}{8}\right)$

8. $\frac{7}{-8} \div 7$

9. $-\left(\frac{3}{-7}\right) + \left(-1\frac{5}{14}\right)$

10. $-\frac{6}{5} \times \frac{12}{-15} \times \frac{-25}{36}$

11. $2\frac{3}{4} \times \left(-1\frac{1}{4}\right) \div \frac{-3}{8}$

12. $-\frac{3}{5} + \left(\frac{-7}{-10}\right) - \left(\frac{-1}{-2}\right)$

13. $\frac{12}{-39} \div \frac{-10}{-9} \times \frac{-5}{18}$

14. $-12 \times \frac{-1}{-4} \left(\frac{4}{5} - \frac{1}{3}\right)$

15. $\frac{-1}{4} + \frac{2}{3} \div \frac{5}{6}$

16. $3\frac{1}{2} + \frac{8}{15} \div \frac{-4}{45}$

17. $\left(\frac{2}{3} - \frac{-1}{4}\right)^2 - \left(\frac{3}{-4} + \frac{2}{3}\right)^2$

18. $\frac{3}{5} + \left(-\frac{2}{3}\right) \times \left[-\frac{3}{4} \div \left(-\frac{1}{2}\right)\right]$

19. $\left[6\frac{1}{2} \times \left(-\frac{4}{5}\right)\right] \div \left[\frac{2}{3} - \left(-3\frac{3}{5}\right)\right]$

Answers:

1. $-\frac{2}{3}$ 2. $-1\frac{5}{8}$ 3. $3\frac{1}{3}$ 4. $-\frac{1}{10}$ 5. $1\frac{7}{12}$ 6. 8 7. $\frac{3}{8}$ 8. $-\frac{1}{8}$ 9. $-\frac{13}{14}$ 10. $-\frac{2}{3}$
 11. $9\frac{1}{6}$ 12. $-\frac{2}{5}$ 13. $\frac{1}{13}$ 14. $-1\frac{2}{5}$ 15. $\frac{11}{20}$ 16. $-2\frac{1}{2}$ 17. $\frac{5}{6}$ 18. $-\frac{2}{5}$ 19. $-1\frac{7}{32}$