

Fractions

One to One Tutoring

May 10, 2010

In each case, simplify the expression. Change mixed fractions into improper fractions.

1. $\frac{-3}{2} \cdot 2$

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

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

4. $\frac{1}{3} \cdot \frac{6}{7}$

5. $\frac{1}{3} + \frac{6}{7}$

6. $\frac{\frac{1}{3}}{\frac{6}{7}}$

7. $\frac{27}{144} \cdot \frac{102}{85}$

8. $\frac{27}{144} + \frac{102}{85}$

9. $\frac{\frac{27}{144}}{\frac{102}{85}}$

10. $\frac{1}{7} \cdot \frac{2}{3}$

11. $\frac{1}{7} + \frac{2}{3}$

12. $\frac{\frac{1}{7}}{\frac{2}{3}}$

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

14. $\frac{27}{108} \div \frac{18}{111}$

15. $\frac{27}{108} - \frac{18}{111}$

16. $\frac{7}{36} + \frac{2}{12} \cdot \frac{5}{15}$

17. $\frac{\frac{1}{3} - \frac{1}{2}}{\frac{11}{15} - \frac{2}{33}}$

18. $11\frac{1}{12}$

19. $9\frac{2}{5}$

20. $3\frac{7}{8}$

21. $-4\frac{108}{144}$

22. $\frac{\frac{x}{2} + \frac{2x}{11}}{\frac{1}{22} - \frac{1}{2}}$

23. $\frac{1}{x} + \frac{2}{3x}$

24. $\frac{x^2 + \frac{1}{x}}{\frac{2}{x^2}}$

25. $\frac{1}{x^2} - \frac{7}{3x}$

$$26. \frac{5}{x-2} \cdot \frac{13x}{35}$$

$$27. \frac{1}{x+1} - \frac{1}{(x-1)^2}$$

$$28. \frac{x}{x-2} + \frac{x}{x+2}$$

$$29. \frac{2}{x^2+x} - \frac{1}{x}$$

$$30. \frac{x+1}{x^2-4x+4} - \frac{x^2}{x^2+x-6}$$

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