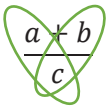
Dividing Expressions that contain variables

Calculators are not allowed to be used with the remediation!

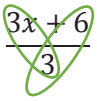
-When you divide an expression by a number, you must divide each term in the numerator by that number

$$\frac{a+b}{c}=\frac{a}{c}+\frac{b}{c}$$



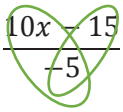
Example 1:

$$\frac{3x+6}{3}=\frac{3x}{3}+\frac{6}{3}=\boldsymbol{x+2}$$



Example 2:

$$\frac{10x-15}{-5}=\frac{10x}{-5}-\frac{15}{-5}=\boldsymbol{-2x+3}$$



Simplify the following expressions. Use the Distributive Property if needed.

1. $\frac{63a}{-9}$
2. $\frac{-450}{10}$
3. $\frac{18x+12}{-6}$
4. $\frac{8k-12}{-4}$
5. $\frac{70x-30y}{-5}$
6. $\frac{35x+210y}{7}$
7. $\frac{3(2x+4y)}{6}$
8. $\frac{(3x-8)6}{2}$
9. $\frac{6(5+10x)}{10}$
10. $\frac{12(x-3y)}{4}$
11. $\frac{(5y+8)3.4}{2}$
12. $\frac{7(-4a-6)}{1.4}$

13. $\frac{-30v+3.6}{-3}$

14. $\frac{6(x+1)}{3}$

15. $\frac{-90w+24w}{-3}$

16. $\frac{3x^2+30}{3}$

17. $\frac{2x^2+4x}{4x}$

18. $\frac{-6+24u}{-3}$

19. $\frac{-15x+10}{5}$

20. $\frac{6a(5b+7)}{3a}$

21. $\frac{2y(y+1)}{2y}$

22. $\frac{14x+7}{-7}$

23. $\frac{21x-18}{3}$

24. $\frac{7-21g}{7}$

25. $\frac{-144+12x}{12}$

26. $\frac{16x^2-64x}{8x}$