tutorified

6.EE.A.2 Order of Operations – Complex Fractions

6.EE.A.2 Write, read, and evaluate expressions in which letters stand for numbers.

Simplify:

1. $\left[\dfrac{4 + (-5)}{-2 - 3}\right]\left[\dfrac{14 + (-21)}{2 - 8}\right]$

   [A] $-\dfrac{7}{30}$ [B] $-\dfrac{7}{6}$ [C] $\dfrac{7}{30}$ [D] $-\dfrac{7}{3}$

2. $\left[\dfrac{7 + (-6)}{-4 - 9}\right]\left[\dfrac{20 + (-45)}{8 - 2}\right]$

   [A] $\dfrac{25}{78}$ [B] $-\dfrac{5}{3}$ [C] $-\dfrac{25}{78}$ [D] $-\dfrac{5}{6}$

3. $\left[\dfrac{4 + (-5)}{-2 - 4}\right]\left[\dfrac{18 + (-36)}{7 - 3}\right]$

   [A] $\dfrac{9}{2}$ [B] $\dfrac{9}{4}$ [C] $-\dfrac{3}{4}$ [D] $\dfrac{3}{4}$

4. $\left[\dfrac{7 + (-3)}{-6 - 2}\right]\left[\dfrac{18 + (-6)}{6 - 7}\right]$

   [A] -6 [B] 24 [C] 12 [D] 6

5. $\left[\dfrac{8 + (-2)}{-5 - 6}\right]\left[\dfrac{40 + (-48)}{9 - 8}\right]$

   [A] $-\dfrac{48}{11}$ [B] $\dfrac{48}{11}$ [C] -96 [D] -48

6. $\left[\dfrac{5 + (-8)}{-7 - 5}\right]\left[\dfrac{49 + (-35)}{2 - 4}\right]$

   [A] $-\dfrac{21}{2}$ [B] $-\dfrac{7}{4}$ [C] -21 [D] $\dfrac{7}{4}$

7. $\left[\dfrac{2 + (-7)}{-8 - 7}\right]\left[\dfrac{40 + (-35)}{5 - 2}\right]$

   [A] $\dfrac{5}{9}$ [B] $\dfrac{50}{3}$ [C] $\dfrac{25}{3}$ [D] $-\dfrac{5}{9}$

8. $\left[\dfrac{8 + (-9)}{-9 - 8}\right]\left[\dfrac{72 + (-64)}{3 - 8}\right]$

   [A] $-\dfrac{8}{85}$ [B] $\dfrac{8}{85}$ [C] $-\dfrac{8}{5}$ [D] $-\dfrac{16}{5}$

9. $\left[\dfrac{4 + (-2)}{-6 - 3}\right]\left[\dfrac{54 + (-27)}{5 - 4}\right]$

   [A] -36 [B] 6 [C] -6 [D] -18

10. $\left[\dfrac{3 + (-4)}{-3 - 9}\right]\left[\dfrac{18 + (-54)}{2 - 3}\right]$

    [A] 3 [B] -6 [C] -12 [D] -3

6.EE.A.2 Write, read, and evaluate expressions in which letters stand for numbers.

[1] C

[2] A

[3] C

[4] D

[5] B

[6] B

[7] A

[8] A

[9] C

[10] A