Name: _____ ME43 Classwork 2

1. If $x = -4$, $y = -1$, and $z = 5$, what is the numerical value of xy^2z?	6. If $y = -2$ and $z = 3$, what is the value of z^2y^2?
2. Simplify: $\frac{40}{-4}$	7. Simplify: $\frac{6}{7} \cdot \frac{2}{9}$
3. Solve: $\frac{8}{12} = \frac{x}{6}$	8. Evaluate $x(y + z)$ if $x = 4$, $y = -2$, and $z = -1$.
4. Evaluate $\frac{x^2 + 3}{2x}$ if $x = -3$.	9. Simplify: $\frac{1}{5} \div \frac{7}{3}$
5. Simplify: $(-10) - (-10)$	10. Simplify: $5 - 7(-5)$

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11. Simplify: $\dfrac{100-150}{-10}$	16. Simplify: $\dfrac{5}{6}\cdot\dfrac{1}{6}$
12. Evaluate $\frac{1}{4}z^3$ if $z=-2$.	17. Simplify: $9-11$
13. Simplify: $-7-(-10)$	18. Simplify: $\dfrac{1}{5}-\dfrac{2}{11}$
14. Simplify: $\dfrac{1}{5}+\dfrac{8}{3}$	19. Evaluate $2g^2+5g-6$ if $g=-3$.
15. When $x=20$ and $a=-2$, what is the value of xa^2+20?	20. Evaluate $\dfrac{y+z^2}{x+y}$ if $x=3$, $y=-2$, and $z=5$.

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