

Algebra 2 Common Core
Day 33 Negative and Zero Exponents

Name _____

Date _____

Simplify.

1. 4^{-2}

2. 5^{-2}

3. $(2.6)^0$

4. $\left(\frac{2}{3}\right)^0$

5. $-(-12)^0$

6. $5 \cdot 10^{-3}$

7. $4(6^{-2})$

8. $2^{-1} \cdot 4^2$

9. $(10^{-3})(5^3)$

10. $(1 + 1)^{-5}$

11. $(4 + 7)^{-2}$

12. $2^{-2} + 2^2$

13. $2^2 - 2^{-2}$

14. $(3^0)^{-4}$

15. $[(-5)^3]^0$

16. $10^0 \cdot 5^{-2}$

17. $(6^{-3})(6^3)$

18. $8^2 \cdot 8^{-1}$

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19. $\left(\frac{3}{4}\right)^{-1}$

20. $\left(\frac{1}{2}\right)^{-4}$

21. $\frac{5^{-1}}{10^0}$

22. $\frac{2^{-5}}{2^0}$

23. $\left[\left(\frac{1}{7}\right)^{-1}\right]^{-2}$

24. $\frac{2^{-1} + 3^{-1}}{2^{-1} - 3^{-1}}$

25. $3x^0$

26. $(m^{-3})(m^{-7})$

27. $(w^0)(w^{-9})$

28. $5c^{-4} \cdot 2c^5$

29. $-7ay^3 \cdot 5a^{-1}y^{-2}$

30. $(3u^{-3})^{-3}$

31. $(pr^{-1})^{-1}$

32. $\frac{9c^0}{12c^{-2}}$

33. $\frac{w^{-1}z^{-3}}{w^{-2}z^2}$

34. $\frac{3^{-1}s^{-2}t}{3^{-4}s^3t^5}$

35. $\frac{(m^2r^2)^{-4}(mr^{-6})^{-3}}{(-m^{-5}r^4)^3(m^4r^6)^{-2}}$

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36. $\frac{5}{2w} + \frac{w^{-1}}{2}$

37. $(c + d)^{-1}$

38. $\left(\frac{1}{x + y}\right)^{-1}$

1.
Answer: $\frac{1}{16}$
CodePath: EAS.ALG.B.G.1
2.
Answer: $\frac{1}{25}$
CodePath: EAS.ALG.B.G.4
3.
Answer: 1
CodePath: EAS.ALG.B.G.6
4.
Answer: 1
CodePath: EAS.ALG.B.G.8
5.
Answer: -1
CodePath: EAS.ALG.B.G.11
6.
Answer: $\frac{1}{200}$
CodePath: EAS.ALG.B.G.15
7.
Answer: $\frac{1}{9}$
CodePath: EAS.ALG.B.G.16
8.
Answer: 8
CodePath: EAS.ALG.B.G.17
9.
Answer: $\frac{1}{8}$
CodePath: EAS.ALG.B.G.18
10.
Answer: $\frac{1}{32}$
CodePath: EAS.ALG.B.G.30
11.
Answer: $\frac{1}{121}$
CodePath: EAS.ALG.B.G.31
12.
Answer: $\frac{17}{4}$
CodePath: EAS.ALG.B.G.35
13.
Answer: $\frac{15}{4}$
CodePath: EAS.ALG.B.G.36
14.
Answer: 1
CodePath: EAS.ALG.B.G.39

15.
Answer: 1
CodePath: EAS.ALG.B.G.40
16.
Answer: $\frac{1}{25}$
CodePath: EAS.ALG.B.G.41
17.
Answer: 1
CodePath: EAS.ALG.B.G.45
18.
Answer: 8
CodePath: EAS.ALG.B.G.47
19.
Answer: $\frac{4}{3}$
CodePath: EAS.ALG.B.G.53
20.
Answer: 16
CodePath: EAS.ALG.B.G.55
21.
Answer: $\frac{1}{5}$
CodePath: EAS.ALG.B.G.61
22.
Answer: $\frac{1}{32}$
CodePath: EAS.ALG.B.G.64
23.
Answer: $\frac{1}{49}$
CodePath: EAS.ALG.B.G.67
24.
Answer: 5
CodePath: EAS.ALG.B.G.77
25.
Answer: 3
CodePath: EAS.ALG.B.G.82
26.
Answer: $\frac{1}{m^{10}}$
CodePath: EAS.ALG.B.G.89
27.
Answer: $\frac{1}{w^9}$
CodePath: EAS.ALG.B.G.92

28.
Answer: $10c$
CodePath: EAS.ALG.B.G.100
29.
Answer: $-35y$
CodePath: EAS.ALG.B.G.107
30.
Answer: $\frac{u^9}{27}$
CodePath: EAS.ALG.B.G.109
31.
Answer: $\frac{r}{p}$
CodePath: EAS.ALG.B.G.113
32.
Answer: $\frac{3c^2}{4}$
CodePath: EAS.ALG.B.G.141
33.
Answer: $\frac{w}{y^5}$
CodePath: EAS.ALG.B.G.152
34.
Answer: $\frac{27}{s^5t^4}$
CodePath: EAS.ALG.B.G.158
35.
Answer: $-m^{12}r^{10}$
CodePath: EAS.ALG.B.G.178
36.
Answer: $\frac{3}{w}$
CodePath: EAS.ALG.B.G.188
37.
Answer: $\frac{1}{c+d}$
CodePath: EAS.ALG.B.G.189
38.
Answer: $x + y$
CodePath: EAS.ALG.B.G.190