



## Division Property of Exponents

Name: \_\_\_\_\_

Date: \_\_\_\_\_



Simplify.

1)  $\frac{b^{-4}}{b^4} =$

2)  $\frac{5^2}{5^9} =$

3)  $\frac{5^6}{5^9} =$

4)  $\left(\frac{-5}{3}\right)^3 =$

5)  $\frac{n^2}{n^3} =$

6)  $\frac{n^2}{n} =$

7)  $\frac{x}{x^5} =$

8)  $\frac{2^{12}}{2^{11}} =$

9)  $\frac{2^{10}}{2^{11}} =$

10)  $\frac{5^8}{5^4} =$

11)  $\left(\frac{1}{5}\right)^3 =$

12)  $\left(\frac{1}{5}\right)^4 =$

13)  $\frac{3^4 \times 3^9}{3^1 \times 3^8} =$

14)  $\frac{a^{17}}{a^{14}} =$

15)  $\frac{a^6}{a^{14}} =$

16)  $\frac{x^3}{x^5} =$

17)  $\frac{x^{12}}{x^6} =$

12)  $\frac{x^{12}}{x^9} =$

13)  $\frac{3}{3^6} =$

14)  $\frac{c^{12}}{c^5} =$

21)  $\frac{3}{3^5} =$



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## Division Property of Exponents

## Answers



Simplify.

1)  $\frac{b^{-4}}{b^4} = 1$

2)  $\frac{5^2}{5^9} = \frac{1}{5^7}$

3)  $\frac{5^6}{5^9} = \frac{1}{5^3}$

4)  $\left(\frac{-5}{3}\right)^3 = \frac{-125}{27}$

5)  $\frac{n^2}{n^3} = \frac{1}{n}$

6)  $\frac{n^2}{n} = n$

7)  $\frac{x}{x^5} = \frac{1}{x^4}$

8)  $\frac{2^{12}}{2^{11}} = 2$

9)  $\frac{2^{10}}{2^{11}} = \frac{1}{2}$

10)  $\frac{5^8}{5^4} = 5^4$

11)  $\left(\frac{1}{5}\right)^3 = \frac{1}{125}$

12)  $\left(\frac{1}{5}\right)^4 = \frac{1}{5^4}$

13)  $\frac{3^4 \times 3^9}{3^1 \times 3^8} = 3^4$

14)  $\frac{a^{17}}{a^{14}} = a^3$

15)  $\frac{a^6}{a^{14}} = \frac{1}{a^8}$

16)  $\frac{x^3}{x^5} = \frac{1}{x^2}$

17)  $\frac{x^{12}}{x^6} = x^6$

12)  $\frac{x^{12}}{x^9} = x^3$

13)  $\frac{3}{3^6} = \frac{1}{3^5}$

14)  $\frac{c^{12}}{c^5} = c^7$

21)  $\frac{3}{3^5} = \frac{1}{3^4}$



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