

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

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

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

### Evaluate the Exponents

1 )  $\left(\frac{4}{12}\right)^{-2} =$  \_\_\_\_\_

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

2 )  $\left(\frac{1}{6}\right)^{-2} =$  \_\_\_\_\_

12 )  $\left(\frac{7}{9}\right)^3 =$  \_\_\_\_\_

3 )  $\left(-\frac{4}{6}\right)^{-4} =$  \_\_\_\_\_

13 )  $\left(-\frac{1}{2}\right)^{-3} =$  \_\_\_\_\_

4 )  $\left(-\frac{1}{7}\right)^3 =$  \_\_\_\_\_

14 )  $\left(-\frac{1}{2}\right)^8 =$  \_\_\_\_\_

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

15 )  $\left(\frac{1}{2}\right)^{-4} =$  \_\_\_\_\_

6 )  $\left(\frac{3}{10}\right)^2 =$  \_\_\_\_\_

16 )  $\left(-\frac{8}{12}\right)^{-2} =$  \_\_\_\_\_

7 )  $\left(\frac{1}{2}\right)^{-8} =$  \_\_\_\_\_

17 )  $\left(-\frac{9}{10}\right)^{-2} =$  \_\_\_\_\_

8 )  $\left(\frac{2}{3}\right)^{-5} =$  \_\_\_\_\_

18 )  $\left(-\frac{2}{3}\right)^4 =$  \_\_\_\_\_

9 )  $\left(\frac{4}{8}\right)^{-2} =$  \_\_\_\_\_

19 )  $\left(\frac{1}{5}\right)^{-3} =$  \_\_\_\_\_

10 )  $\left(-\frac{2}{3}\right)^{-3} =$  \_\_\_\_\_

20 )  $\left(\frac{1}{3}\right)^4 =$  \_\_\_\_\_

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**Evaluate the Exponents**

1 )  $\left(\frac{4}{12}\right)^{-2} = \frac{144}{16}$

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

2 )  $\left(\frac{1}{6}\right)^{-2} = 36$

12 )  $\left(\frac{7}{9}\right)^3 = \frac{343}{729}$

3 )  $\left(-\frac{4}{6}\right)^{-4} = \frac{1296}{256}$

13 )  $\left(-\frac{1}{2}\right)^{-3} = -8$

4 )  $\left(-\frac{1}{7}\right)^3 = -\frac{1}{343}$

14 )  $\left(-\frac{1}{2}\right)^8 = \frac{1}{256}$

5 )  $\left(\frac{3}{4}\right)^{-3} = \frac{64}{27}$

15 )  $\left(\frac{1}{2}\right)^{-4} = 16$

6 )  $\left(\frac{3}{10}\right)^2 = \frac{9}{100}$

16 )  $\left(-\frac{8}{12}\right)^{-2} = \frac{144}{64}$

7 )  $\left(\frac{1}{2}\right)^{-8} = 256$

17 )  $\left(-\frac{9}{10}\right)^{-2} = \frac{100}{81}$

8 )  $\left(\frac{2}{3}\right)^{-5} = \frac{243}{32}$

18 )  $\left(-\frac{2}{3}\right)^4 = \frac{16}{81}$

9 )  $\left(\frac{4}{8}\right)^{-2} = \frac{64}{16}$

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

10 )  $\left(-\frac{2}{3}\right)^{-3} = -\frac{27}{8}$

20 )  $\left(\frac{1}{3}\right)^4 = \frac{1}{81}$