

# Math Sheet

Name \_\_\_\_\_ Score \_\_\_\_\_ / 20 Teacher \_\_\_\_\_ Date \_\_\_\_\_

## Evaluate Fraction Exponents

Evaluate each fractional base and exponent exactly.

1.  $\left(\frac{3}{5}\right)^7$

\_\_\_\_\_

2.  $\left(\frac{-3}{5}\right)^7$

\_\_\_\_\_

3.  $\left(\frac{5}{7}\right)^{-6}$

\_\_\_\_\_

4.  $\left(\frac{-9}{11}\right)^{-5}$

\_\_\_\_\_

5.  $\left(\frac{4}{11}\right)^6$

\_\_\_\_\_

6.  $\left(\frac{-3}{5}\right)^5$

\_\_\_\_\_

7.  $\left(\frac{1}{8}\right)^{-3}$

\_\_\_\_\_

8.  $\left(\frac{-7}{12}\right)^{-2}$

\_\_\_\_\_

9.  $\left(\frac{8}{11}\right)^7$

\_\_\_\_\_

10.  $\left(\frac{-2}{5}\right)^2$

\_\_\_\_\_

11.  $\left(\frac{8}{9}\right)^{-7}$

\_\_\_\_\_

12.  $\left(\frac{-1}{12}\right)^{-2}$

\_\_\_\_\_

13.  $\left(\frac{10}{11}\right)^2$

\_\_\_\_\_

14.  $\left(\frac{-4}{11}\right)^2$

\_\_\_\_\_

# Math Sheet

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## Evaluate Fraction Exponents

Evaluate each fractional base and exponent exactly.

15.  $\left(\frac{1}{9}\right)^{-3}$

\_\_\_\_\_

16.  $\left(\frac{-9}{11}\right)^{-2}$

\_\_\_\_\_

17.  $\left(\frac{8}{9}\right)^4$

\_\_\_\_\_

18.  $\left(\frac{-4}{7}\right)^4$

\_\_\_\_\_

19.  $\left(\frac{3}{5}\right)^{-5}$

\_\_\_\_\_

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

\_\_\_\_\_

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## Evaluate Fraction Exponents

### Answer Key

Evaluate each fractional base and exponent exactly.

1.  $\left(\frac{3}{5}\right)^7$

Work:  
 $\frac{2187}{78125}$

2.  $\left(\frac{-3}{5}\right)^7$

Work:  
 $\frac{-2187}{78125}$

3.  $\left(\frac{5}{7}\right)^{-6}$

Work:  
 $\frac{117649}{15625}$

4.  $\left(\frac{-9}{11}\right)^{-5}$

Work:  
 $\frac{-161051}{59049}$

5.  $\left(\frac{4}{11}\right)^6$

Work:  
 $\frac{4096}{1771561}$

6.  $\left(\frac{-3}{5}\right)^5$

Work:  
 $\frac{-243}{3125}$

7.  $\left(\frac{1}{8}\right)^{-3}$

Work:  
512

8.  $\left(\frac{-7}{12}\right)^{-2}$

Work:  
 $\frac{144}{49}$

9.  $\left(\frac{8}{11}\right)^7$

Work:  
 $\frac{2097152}{19487171}$

10.  $\left(\frac{-2}{5}\right)^2$

Work:  
 $\frac{4}{25}$

11.  $\left(\frac{8}{9}\right)^{-7}$

Work:  
 $\frac{4782969}{2097152}$

12.  $\left(\frac{-1}{12}\right)^{-2}$

Work:  
144

13.  $\left(\frac{10}{11}\right)^2$

Work:  
 $\frac{100}{121}$

14.  $\left(\frac{-4}{11}\right)^2$

Work:  
 $\frac{16}{121}$

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## Evaluate Fraction Exponents

### Answer Key

Evaluate each fractional base and exponent exactly.

15.  $\left(\frac{1}{9}\right)^{-3}$

Work:  
 $\frac{729}{1}$

16.  $\left(\frac{-9}{11}\right)^{-2}$

Work:  
 $\frac{121}{81}$

17.  $\left(\frac{8}{9}\right)^4$

Work:  
 $\frac{4096}{6561}$

18.  $\left(\frac{-4}{7}\right)^4$

Work:  
 $\frac{256}{2401}$

19.  $\left(\frac{3}{5}\right)^{-5}$

Work:  
 $\frac{3125}{243}$

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

Work:  
 $\frac{256}{81}$