

MasterMath

Perfect Practice Worksheet

Name _____
Date _____

Estimating with Fractions

1. Round these fractions up to the nearest Compatible Number

$\frac{3}{5}$	
$\frac{4}{5}$	
$\frac{2}{3}$	

$\frac{8}{9}$	
$\frac{1}{6}$	
$\frac{5}{8}$	

$\frac{6}{7}$	
$\frac{1}{8}$	
$\frac{18}{19}$	

2. Estimate the product or quotient

	rounded	estimate
$\frac{1}{8} \times \frac{4}{5}$		
$\frac{6}{7} \times \frac{2}{3}$		
$\frac{5}{8} \times \frac{1}{2}$		
$\frac{8}{9} \div \frac{7}{8}$		
$\frac{6}{7} \div 2$		
$4 \div \frac{7}{8}$		
$\frac{1}{8} \times \frac{4}{7}$		

	rounded	estimate
$1 \frac{1}{5} \times 6 \frac{7}{8}$		
$16 \frac{1}{5} \times 2 \frac{1}{3}$		
$\frac{1}{4} \times \frac{2}{3}$		
$2 \frac{3}{8} \div 3 \frac{1}{8}$		
$18 \frac{1}{5} \div 2 \frac{5}{6}$		
$24 \frac{1}{8} \div \frac{3}{8}$		
$3 \frac{1}{5} \times 4 \frac{2}{3}$		

Use compatible numbers to estimate the answer

3. $\frac{4}{7} \times \frac{1}{6}$ 4. $120 \div 2\frac{1}{2}$
5. $\frac{2}{3} + 5 \frac{1}{2}$ 6. $8 \frac{1}{8} - 2 \frac{7}{8}$
7. $15 \frac{1}{2} - 2 \frac{2}{3}$ 8. $\frac{1}{5} + \frac{1}{2}$

9. You shoot 406 free throws, and you make $\frac{1}{4}$ of them. Estimate how many free throws you make.

rounded	estimation

10. Your recipe for cookies calls for $1 \frac{3}{4}$ cups of flour per 25 cookies. You have 8 cups of flour. Estimate how many cookies you can make.

rounded	estimation

11. In Problem 10. above, you rounded the $1 \frac{3}{4}$ either up or down. Why would it be a mistake to round it the other way?

12. A gallon of paint covers 400 square feet. The 4 walls you want to paint are each 9' x 20'. How many gallons of paint will you need?