

CYU 1.3 Fractions & Mixed Numbers Day ONE

Use when you get it right all by yourself

**S** Use when you did it all by yourself, but made a silly mistake

**H** Use when you could do it alone with a little help from teacher or peer

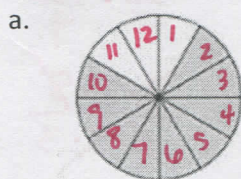
**G** Use when you completed the problem in a group

**X** Use when a question was attempted but wrong (get help)

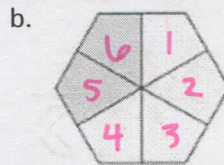
**N** Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Fractions	1		
Product of primes	2		
Simplest Form/Lowest Terms	3		
Multiply fractions	4		
Divide fractions	5		

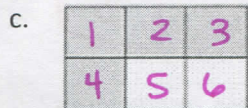
1. Represent the shaded part of each geometric figure by a fraction.



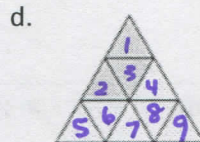
$\frac{9}{12}$  or  $\frac{3}{4}$



$\frac{2}{6} = \frac{1}{3}$



$\frac{4}{6}$  or  $\frac{2}{3}$



$\frac{3}{9} = \frac{1}{3}$

2. Write each number as a product of primes.

a. 33  
 $3 \hat{=} 11$   
 $3 \cdot 11$

b. 98  
 $49 \hat{=} 7$   
 $7 \hat{=} 7$   
 $2 \cdot 7 \cdot 7$

c. 20  
 $4 \hat{=} 5$   
 $2 \hat{=} 2$   
 $2 \cdot 2 \cdot 5$

d. 75  
 $3 \hat{=} 25$   
 $5 \hat{=} 5$   
 $3 \cdot 5 \cdot 5$

e. 45  
 $5 \hat{=} 9$   
 $3 \hat{=} 3$   
 $3 \cdot 3 \cdot 5$



3. Write the fraction in lowest terms.

a.  $\frac{2}{4} \div 2$

$\frac{1}{2}$

b.  $\frac{10}{15} \div 5$

$\frac{2}{3}$

c.  $\frac{3}{7}$  prime

$\frac{3}{7}$

d.  $\frac{18}{30} \div 6$

$\frac{3}{5}$

e.  $\frac{120}{244} \div 4$

$\frac{30}{61}$

4. Multiply & Simplify.

a.  $\frac{1}{2} \cdot \frac{3}{4} = \frac{1 \cdot 3}{2 \cdot 2}$

$\frac{3}{8}$

b.  $\frac{2}{3} \cdot \frac{3}{4} = \frac{\cancel{2} \cdot \cancel{3}}{\cancel{3} \cdot 2}$

$\frac{1}{2}$

c.  $\frac{7}{10} \cdot \frac{5}{21} = \frac{\cancel{7} \cdot 5}{2 \cdot \cancel{5} \cdot 3 \cdot \cancel{7}}$

$\frac{1}{6}$

d.  $\frac{25}{9} \cdot \frac{1}{3} = \frac{5 \cdot 5}{3 \cdot 3 \cdot 3}$

$\frac{25}{27}$

5. Divide & Simplify. **KCF**

a.  $\frac{1}{2} \div \frac{7}{12}$

$\frac{1}{2} \cdot \frac{12}{7}$   
 $\frac{1 \cdot \cancel{12} \cdot 2}{2 \cdot 7}$

$\frac{6}{7}$

b.  $\frac{3}{4} \div \frac{1}{20}$

$\frac{3}{4} \cdot \frac{20}{1}$   
 $\frac{3 \cdot \cancel{20} \cdot 5}{2 \cdot 2}$

15

c.  $\frac{7}{12} \div \frac{1}{2}$

$\frac{7}{12} \cdot \frac{2}{1}$   
 $\frac{7 \cdot \cancel{2}}{2 \cdot 2 \cdot 3}$

$\frac{7}{6}$

d.  $\frac{3}{5} \div \frac{9}{10}$

$\frac{3}{5} \cdot \frac{10}{9}$   
 $\frac{\cancel{3} \cdot \cancel{10} \cdot 2}{5 \cdot \cancel{3} \cdot 3}$

$\frac{2}{3}$

CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

