## **Lecture Notes**

## <u>Notes</u>

- The **numerator** of a fraction is the **top** number.
- The **denominator** of a fraction is the **bottom** number.
- The **fraction bar** is really a **division bar**.
  - A fraction represents division, where the numerator (dividend) is being divided by the denominator (divisor).
- A proper fraction has a smaller numerator than its denominator.
- An improper fraction has the same or larger numerator than its denominator.
- Although you should know the difference between a proper and improper fraction, there are many times when we accept fractions in their improper form. But of course, it depends on the question being asked and the format of the answer that is expected.

Identify the numerator and denominator of the following number.
9
10

Fin	d the	prop	ber a	nd i	mproper fractions in the following list.
	9				
2	11 '	9 '	14 '	3,	13

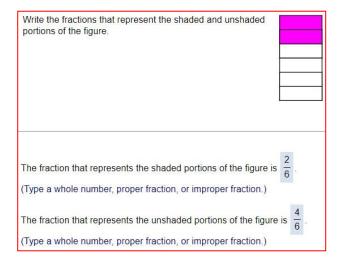
Which	answer below contains all of the improper fractions from the given list?
() A.	<u>5</u> <u>16</u> <u>11</u>
ОВ.	2' 9 ' 13 9 2 11
ΟВ.	$\frac{1}{11}, \frac{2}{3}, \frac{1}{13}$
⊖ c.	$\frac{5}{2}, \frac{16}{9}$
<b>∛</b> D.	$\frac{5}{2}, \frac{16}{9}, \frac{14}{14}$

A O	5 16	11
0.10	$\frac{1}{2}, \frac{1}{9}$	
€ В.	$\frac{9}{11}, \frac{2}{3}$	
О C.	5 16	
	2'9	· <del>14</del>
() D.	$\frac{9}{11}, \frac{1}{13}$	1 3

Write the fractions that represent the shaded and unshaded portions of the figure.
The fraction that represents the shaded portions of the figure is $\frac{7}{8}$ . (Type a whole number, proper fraction, or improper fraction.)
The fraction that represents the unshaded portions of the figure is $\frac{1}{8}$ . (Type a whole number, proper fraction, or improper fraction.)

- A useful way to think of a fraction is **Part / Whole** (or Part ÷ Whole).
- The **part** is the **numerator**.
- The **whole** is the **denominator**.
- When adding the fractions of the shaded and unshaded portions of the graphic, the result is **1**.
  - $\circ \frac{7}{8} + \frac{1}{8} = \frac{8}{8} = 1$
  - $\circ$  You can also think of 1 as 100%.

Write the fractions that represent the shaded and unshaded portions of the figure
The fraction that represents the shaded portions of the figure is $\frac{1}{4}$ .
(Type a whole number, proper fraction, or improper fraction.)
The fraction that represents the unshaded portions of the figure is $\frac{3}{4}$ .
(Type a whole number, proper fraction, or improper fraction.)



Draw and shade a part of a diagram to represent the fraction.	
$\frac{4}{5}$ of a diagram	
Which shaded region below represents $\frac{4}{5}$ ?	
○ A.	(€ В.
○ c.	○ D.

Draw a sketch to illustrate the fractional part $\frac{7}{12}$			
Choose	e the correct sketch below.		
<b>ℰ</b> А.			
⊖ в.			
⊖ C.			
() D.			
() E.	None of the above.		