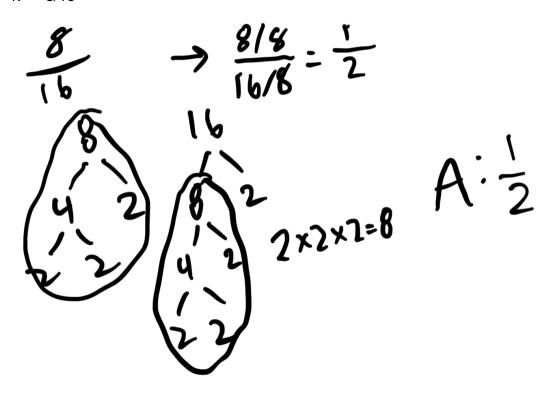
## **Basic Fraction Skills.**

A. Lower the following fractions to their lowest terms. Make sure to show your work, including all intermediate steps!

1. 8/16



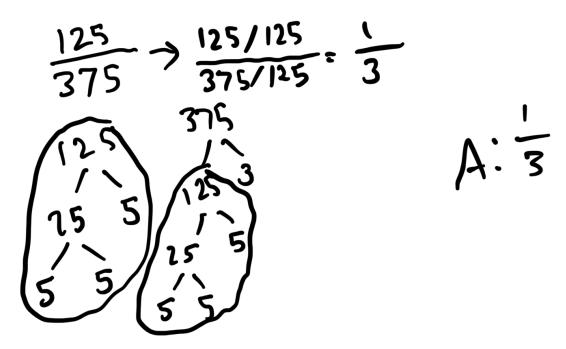
2. 9/12

$$\frac{9}{12} \rightarrow \frac{9/3}{12/3} = \frac{3}{4}$$

$$9 \rightarrow 12 \rightarrow 13$$

$$9 \rightarrow 13 \rightarrow 13$$

$$9 \rightarrow 13$$



4. 75/80

$$\frac{75}{80} \rightarrow \frac{75/5}{80/5} = \frac{15}{16}$$

$$\frac{75}{80} \rightarrow \frac{80}{80/5} = \frac{15}{16}$$

$$\frac{75}{25} \rightarrow \frac{80}{80/5} = \frac{15}{16}$$

$$\frac{75}{25} \rightarrow \frac{80}{80/5} = \frac{15}{16}$$

$$\frac{75}{25} \rightarrow \frac{80}{16} \rightarrow \frac{15}{16}$$

$$\frac{75}{25} \rightarrow \frac{80}{16} \rightarrow \frac{15}{16}$$

$$\frac{75}{25} \rightarrow \frac{80}{16} \rightarrow \frac{15}{16}$$

$$\frac{75}{25} \rightarrow \frac{15}{80} \rightarrow \frac{15}{16}$$

$$\frac{75}{25} \rightarrow \frac{15}{16} \rightarrow \frac{15}{16}$$

$$\frac{75}{25} \rightarrow \frac{15}{80} \rightarrow \frac{15}{16}$$

$$\frac{75}{25} \rightarrow \frac{15}{16} \rightarrow \frac{15}{16}$$

5. 290/295

$$\frac{290}{295} \Rightarrow \frac{290/5}{295/5} = \frac{58}{59}$$

$$290$$

$$295$$

$$39$$

$$59$$

$$59$$

$$59$$

$$295$$

$$59$$

$$59$$

$$295$$

$$295$$

$$39$$

$$4:59$$

$$295$$

$$295$$

$$39$$

$$4:59$$

- B. Raise the following terms to match the denominator given. Make sure to show your work, including all intermediate steps!
- 6. 3/7 = x/21

$$\frac{3}{7} = \frac{x}{21} \rightarrow \frac{9}{21}$$

$$7x = 3.21$$

$$7x = 63$$

$$7x = 63$$

$$x = 9$$

$$x = 9$$

$$\frac{4}{5} = \frac{\times}{30} \rightarrow \frac{24}{30}$$

$$5x = 4.30$$
 $5x = 120$ 

$$5x = 120$$

$$x = 24$$

8. 
$$8/9 = x/81$$

$$9x = 648$$
  
 $x = \frac{648}{9}$ 

$$x = 72$$

$$\frac{7}{8} = \frac{\times}{64}$$
 $\frac{7}{64}$ 
 $\frac{7}{64}$ 
 $\frac{7}{64}$ 
 $\frac{7}{64}$ 
 $\frac{7}{64}$ 
 $\frac{7}{64}$ 
 $\frac{7}{64}$ 
 $\frac{7}{64}$ 
 $\frac{7}{64}$ 
 $\frac{7}{8}$ 
 $\frac{7}{64}$ 
 $\frac{7}{64}$ 

10. 5/14 = x/84

$$\frac{5}{14} = \frac{x}{84}$$

$$\frac{30}{80}$$

$$14x = 5.84$$

$$14x = 420$$

$$x = 30$$

$$x = 30$$

C. Find the <u>lowest</u> common denominator. Make sure to show your work, including all intermediate steps!

11. ½ and 2/3

12. ¾ and 2/5

13. 2/7 and 5/6

14. 9/15 and 2/12

15. 4/17 and 3/16