

1. Name two numbers in the following set that are relatively prime: {5, 16, 10, 25}

5 and 16 or  
16 and 25

2. Rewrite each expression below in factored form by factoring out the GCF.

a. $\frac{9x+27}{9} \frac{27}{9}$  $9(x+3)$	b. $\frac{8x+2}{2} \frac{2}{2}$  $2(4x+1)$	c. $\frac{15w-30}{15} \frac{30}{15}$  $15(w-2)$	d. $\frac{36a+16b}{4} \frac{16b}{4}$  $4(9a+4b)$
e. $\frac{21m-49n}{7} \frac{49n}{7}$  $7(3m-7n)$	f. $\frac{49x-7}{7} \frac{7}{7}$  $7(7x-1)$	g. $\frac{18x+24}{6} \frac{24}{6}$  $6(3x+4)$	h. $\frac{10x+50}{10} \frac{50}{10}$  $10(x+5)$
i. $\frac{12y-16}{4} \frac{16}{4}$  $4(3y-4)$	j. $\frac{36k-30}{6} \frac{30}{6}$  $6(6k-5)$	k. $\frac{2x-50}{2} \frac{50}{2}$  $2(x-25)$	l. $\frac{32v+52w}{4} \frac{52w}{4}$  $4(8v+13w)$
m. $\frac{17x+51}{17} \frac{51}{17}$  $17(x+3)$	n. $\frac{18y-36}{18} \frac{36}{18}$  $18(y-2)$		

3. Sally tried to factor the expression  $18x - 24$  using the GCF. Did she factor the expression correctly?

Expression:  $18x - 24$

Factored Form:  $2(9x - 12)$

No.  
The GCF is 6.  $6(3x-4)$

4. a.) Simplify the expression:  $4(x-5) + 6(x+2)$

$$4x - 20 + 6x + 12$$

b.) Rewrite your simplified expression from (a) in factored form.

$$10x - 8$$

$$2(5x - 4)$$