## Lesson I. 7 Greatest Common Factor

A factor is a divisor of a number. (For example, 3 and 4 are both factors of I2.) A common factor is a divisor that is shared by two or more numbers ( $1,2,4$, and 8 ). The grearest common factor is the largest common factor shared by the numbers (8).
To find the greatest common factor of 32 and 40 , list all of the factors of each.


The greatest common factor is 8 .
List the factors of each number below. Then, list the common factors and the greatest common factor.

Factors
Common Factors
$\qquad$
I. 8 $\qquad$
12 $\qquad$
2. 6 $\qquad$

18 $\qquad$
3. 24 $\qquad$
15 $\qquad$
4. 4 $\qquad$
6 $\qquad$
5. 5 $\qquad$
12 $\qquad$
6. 16 $\qquad$
12 $\qquad$
$\qquad$

Find the greatest common factor for each set of numbers.
a
I. 7 and 3
2. 14 and 42 $\qquad$ _

27 and 18
15 and 18
b
$\qquad$

$\qquad$
3. 36 and 24 $\qquad$ 45 and 20 $\qquad$
4. 72 and 54 $\qquad$ 42 and 49
5. 86 and 94 $\qquad$ 66 and 11
6. 52 and 26 $\qquad$ 12 and 40
7. 9,12 , and 21 $\qquad$ 16,32 , and 64
8. 15,25 , and 40 $\qquad$ 27,36 , and 72
$\qquad$

## Lesson I. 8 Least Common Multiple

Find the least common multiple by listing multiples of each number until finding the first one that is shared.

## 

Find the least common multiple for each set of numbers.

|  |  | b |
| :---: | :---: | :---: |
| I. 51 and 18 | 104 and 76 |  |
| 2. 54 and 64 | 20 and 26 |  |
| 3. 78 and 110 | 42 and 63 |  |

4. 23 and $92 \quad 75$ and 15
5. 28 and 32 $\qquad$ 12 and 16
6. 9,45 , and 81 $\qquad$ 21,45 , and 6
7. 17,24 , and 53 $\qquad$ 86,68 , and 20
$\qquad$

## Lesson I. 8 Least Common Multiple

Find the least common multiple for each set of numbers.
a
b
I. 10 and 13 $\qquad$ 23 and 35
$\square$
2. 45 and 59 $\qquad$ 41 and 55
3. 68 and 71 $\qquad$ 63 and 76
4. 28 and 35 $\qquad$ 40 and 50
5. 33 and 44 $\qquad$ 27 and 45
6. 6,76 , and 18 $\qquad$ 4,24 , and 21 $\qquad$
7. 5,25 , and 65 $\qquad$ 7,99 , and 49
8. 3,27 , and 45 $\qquad$ 8,72 , and 216

