

Least Common Multiple (E)

Name: _____

Date: _____

Determine the least common multiple using the prime factors of each number.

1. $4 =$

$42 =$

LCM =

2. $60 =$

$82 =$

LCM =

3. $86 =$

$74 =$

LCM =

4. $82 =$

$36 =$

LCM =

5. $32 =$

$44 =$

LCM =

6. $54 =$

$39 =$

LCM =

7. $58 =$

$26 =$

LCM =

8. $52 =$

$88 =$

LCM =

9. $82 =$

$70 =$

LCM =

10. $52 =$

$24 =$

LCM =

Least Common Multiple (E)

Name: _____

Date: _____

Determine the least common multiple using the prime factors of each number.

1. $4 = 2^2$

$$42 = 2 \times 3 \times 7$$

$$\text{LCM} = 2^2 \times 3 \times 7$$

$$= 84$$

2. $60 = 2^2 \times 3 \times 5$

$$82 = 2 \times 41$$

$$\text{LCM} = 2^2 \times 3 \times 5 \times 41$$

$$= 2460$$

3. $86 = 2 \times 43$

$$74 = 2 \times 37$$

$$\text{LCM} = 2 \times 37 \times 43$$

$$= 3182$$

4. $82 = 2 \times 41$

$$36 = 2^2 \times 3^2$$

$$\text{LCM} = 2^2 \times 3^2 \times 41$$

$$= 1476$$

5. $32 = 2^5$

$$44 = 2^2 \times 11$$

$$\text{LCM} = 2^5 \times 11$$

$$= 352$$

6. $54 = 2 \times 3^3$

$$39 = 3 \times 13$$

$$\text{LCM} = 2 \times 3^3 \times 13$$

$$= 702$$

7. $58 = 2 \times 29$

$$26 = 2 \times 13$$

$$\text{LCM} = 2 \times 13 \times 29$$

$$= 754$$

8. $52 = 2^2 \times 13$

$$88 = 2^3 \times 11$$

$$\text{LCM} = 2^3 \times 11 \times 13$$

$$= 1144$$

9. $82 = 2 \times 41$

$$70 = 2 \times 5 \times 7$$

$$\text{LCM} = 2 \times 5 \times 7 \times 41$$

$$= 2870$$

10. $52 = 2^2 \times 13$

$$24 = 2^3 \times 3$$

$$\text{LCM} = 2^3 \times 3 \times 13$$

$$= 312$$