

## Least Common Multiple (D)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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

1. 51 =

96 =

LCM =

2. 70 =

8 =

LCM =

3. 100 =

78 =

LCM =

4. 92 =

66 =

LCM =

5. 52 =

6 =

LCM =

6. 90 =

44 =

LCM =

7. 28 =

50 =

LCM =

8. 98 =

70 =

LCM =

9. 30 =

69 =

LCM =

10. 58 =

20 =

LCM =

## Least Common Multiple (D)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

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

1.  $51 = 3 \times 17$

$$96 = 2^5 \times 3$$

$$\text{LCM} = 2^5 \times 3 \times 17$$

$$= 1632$$

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

$$8 = 2^3$$

$$\text{LCM} = 2^3 \times 5 \times 7$$

$$= 280$$

3.  $100 = 2^2 \times 5^2$

$$78 = 2 \times 3 \times 13$$

$$\text{LCM} = 2^2 \times 3 \times 5^2 \times 13$$

$$= 3900$$

4.  $92 = 2^2 \times 23$

$$66 = 2 \times 3 \times 11$$

$$\text{LCM} = 2^2 \times 3 \times 11 \times 23$$

$$= 3036$$

5.  $52 = 2^2 \times 13$

$$6 = 2 \times 3$$

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

$$= 156$$

6.  $90 = 2 \times 3^2 \times 5$

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

$$\text{LCM} = 2^2 \times 3^2 \times 5 \times 11$$

$$= 1980$$

7.  $28 = 2^2 \times 7$

$$50 = 2 \times 5^2$$

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

$$= 700$$

8.  $98 = 2 \times 7^2$

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

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

$$= 490$$

9.  $30 = 2 \times 3 \times 5$

$$69 = 3 \times 23$$

$$\text{LCM} = 2 \times 3 \times 5 \times 23$$

$$= 690$$

10.  $58 = 2 \times 29$

$$20 = 2^2 \times 5$$

$$\text{LCM} = 2^2 \times 5 \times 29$$

$$= 580$$