

# Least Common Multiple (A)

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

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

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

1. 24 =

10 =

LCM =

2. 44 =

36 =

LCM =

3. 36 =

50 =

LCM =

4. 24 =

38 =

LCM =

5. 35 =

25 =

LCM =

6. 30 =

35 =

LCM =

7. 16 =

46 =

LCM =

8. 14 =

48 =

LCM =

9. 24 =

22 =

LCM =

10. 30 =

8 =

LCM =

## Least Common Multiple (A)

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

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

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

1.  $24 = 2^3 \times 3$

$$10 = 2 \times 5$$

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

$$= 120$$

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

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

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

$$= 396$$

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

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

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

$$= 900$$

4.  $24 = 2^3 \times 3$

$$38 = 2 \times 19$$

$$\text{LCM} = 2^3 \times 3 \times 19$$

$$= 456$$

5.  $35 = 5 \times 7$

$$25 = 5^2$$

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

$$= 175$$

6.  $30 = 2 \times 3 \times 5$

$$35 = 5 \times 7$$

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

$$= 210$$

7.  $16 = 2^4$

$$46 = 2 \times 23$$

$$\text{LCM} = 2^4 \times 23$$

$$= 368$$

8.  $14 = 2 \times 7$

$$48 = 2^4 \times 3$$

$$\text{LCM} = 2^4 \times 3 \times 7$$

$$= 336$$

9.  $24 = 2^3 \times 3$

$$22 = 2 \times 11$$

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

$$= 264$$

10.  $30 = 2 \times 3 \times 5$

$$8 = 2^3$$

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

$$= 120$$