

# Least Common Multiple (H)

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

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

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

1. 33 =

44 =

LCM =

2. 42 =

4 =

LCM =

3. 30 =

42 =

LCM =

4. 24 =

42 =

LCM =

5. 36 =

22 =

LCM =

6. 22 =

33 =

LCM =

7. 18 =

44 =

LCM =

8. 39 =

48 =

LCM =

9. 38 =

46 =

LCM =

10. 15 =

50 =

LCM =

## Least Common Multiple (H)

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

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

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

1.  $33 = 3 \times 11$

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

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

$$= 132$$

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

$$4 = 2^2$$

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

$$= 84$$

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

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

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

$$= 210$$

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

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

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

$$= 168$$

5.  $36 = 2^2 \times 3^2$

$$22 = 2 \times 11$$

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

$$= 396$$

6.  $22 = 2 \times 11$

$$33 = 3 \times 11$$

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

$$= 66$$

7.  $18 = 2 \times 3^2$

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

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

$$= 396$$

8.  $39 = 3 \times 13$

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

$$\text{LCM} = 2^4 \times 3 \times 13$$

$$= 624$$

9.  $38 = 2 \times 19$

$$46 = 2 \times 23$$

$$\text{LCM} = 2 \times 19 \times 23$$

$$= 874$$

10.  $15 = 3 \times 5$

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

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

$$= 150$$