

Least Common Multiple (I)

Name: _____

Date: _____

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

1. 30 =

38 =

LCM =

2. 15 =

9 =

LCM =

3. 36 =

24 =

LCM =

4. 16 =

30 =

LCM =

5. 39 =

21 =

LCM =

6. 24 =

18 =

LCM =

7. 44 =

12 =

LCM =

8. 49 =

21 =

LCM =

9. 10 =

14 =

LCM =

10. 33 =

48 =

LCM =

Least Common Multiple (I)

Name: _____

Date: _____

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

1. $30 = 2 \times 3 \times 5$

$38 = 2 \times 19$

LCM = $2 \times 3 \times 5 \times 19$

= **570**

2. $15 = 3 \times 5$

$9 = 3^2$

LCM = $3^2 \times 5$

= **45**

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

$24 = 2^3 \times 3$

LCM = $2^3 \times 3^2$

= **72**

4. $16 = 2^4$

$30 = 2 \times 3 \times 5$

LCM = $2^4 \times 3 \times 5$

= **240**

5. $39 = 3 \times 13$

$21 = 3 \times 7$

LCM = $3 \times 7 \times 13$

= **273**

6. $24 = 2^3 \times 3$

$18 = 2 \times 3^2$

LCM = $2^3 \times 3^2$

= **72**

7. $44 = 2^2 \times 11$

$12 = 2^2 \times 3$

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

= **132**

8. $49 = 7^2$

$21 = 3 \times 7$

LCM = 3×7^2

= **147**

9. $10 = 2 \times 5$

$14 = 2 \times 7$

LCM = $2 \times 5 \times 7$

= **70**

10. $33 = 3 \times 11$

$48 = 2^4 \times 3$

LCM = $2^4 \times 3 \times 11$

= **528**