

Least Common Multiple (E)

Name: _____

Date: _____

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

1. 21 =

15 =

LCM =

2. 27 =

21 =

LCM =

3. 26 =

40 =

LCM =

4. 36 =

8 =

LCM =

5. 32 =

44 =

LCM =

6. 21 =

48 =

LCM =

7. 39 =

15 =

LCM =

8. 18 =

4 =

LCM =

9. 20 =

44 =

LCM =

10. 24 =

26 =

LCM =

Least Common Multiple (E)

Name: _____

Date: _____

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

1. $21 = 3 \times 7$

$15 = 3 \times 5$

LCM = $3 \times 5 \times 7$

= **105**

2. $27 = 3^3$

$21 = 3 \times 7$

LCM = $3^3 \times 7$

= **189**

3. $26 = 2 \times 13$

$40 = 2^3 \times 5$

LCM = $2^3 \times 5 \times 13$

= **520**

4. $36 = 2^2 \times 3^2$

$8 = 2^3$

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

= **72**

5. $32 = 2^5$

$44 = 2^2 \times 11$

LCM = $2^5 \times 11$

= **352**

6. $21 = 3 \times 7$

$48 = 2^4 \times 3$

LCM = $2^4 \times 3 \times 7$

= **336**

7. $39 = 3 \times 13$

$15 = 3 \times 5$

LCM = $3 \times 5 \times 13$

= **195**

8. $18 = 2 \times 3^2$

$4 = 2^2$

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

= **36**

9. $20 = 2^2 \times 5$

$44 = 2^2 \times 11$

LCM = $2^2 \times 5 \times 11$

= **220**

10. $24 = 2^3 \times 3$

$26 = 2 \times 13$

LCM = $2^3 \times 3 \times 13$

= **312**