

Least Common Multiple (A)

Name: _____

Date: _____

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

1. 9 =

21 =

LCM =

2. 18 =

10 =

LCM =

3. 24 =

22 =

LCM =

4. 16 =

10 =

LCM =

5. 20 =

15 =

LCM =

6. 15 =

12 =

LCM =

7. 20 =

8 =

LCM =

8. 10 =

12 =

LCM =

9. 8 =

12 =

LCM =

10. 25 =

15 =

LCM =

Least Common Multiple (A)

Name: _____

Date: _____

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

1. $9 = 3^2$

$21 = 3 \times 7$

LCM = $3^2 \times 7$

= 63

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

$10 = 2 \times 5$

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

= 90

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

$22 = 2 \times 11$

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

= 264

4. $16 = 2^4$

$10 = 2 \times 5$

LCM = $2^4 \times 5$

= 80

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

$15 = 3 \times 5$

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

= 60

6. $15 = 3 \times 5$

$12 = 2^2 \times 3$

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

= 60

7. $20 = 2^2 \times 5$

$8 = 2^3$

LCM = $2^3 \times 5$

= 40

8. $10 = 2 \times 5$

$12 = 2^2 \times 3$

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

= 60

9. $8 = 2^3$

$12 = 2^2 \times 3$

LCM = $2^3 \times 3$

= 24

10. $25 = 5^2$

$15 = 3 \times 5$

LCM = 3×5^2

= 75