

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

$$8 = 2^3$$

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

$$= 120$$

## Least Common Multiple (B)

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

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

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

1. 30 =

33 =

LCM =

2. 42 =

44 =

LCM =

3. 40 =

32 =

LCM =

4. 21 =

45 =

LCM =

5. 15 =

42 =

LCM =

6. 20 =

6 =

LCM =

7. 20 =

38 =

LCM =

8. 25 =

20 =

LCM =

9. 38 =

12 =

LCM =

10. 40 =

18 =

LCM =

## Least Common Multiple (B)

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

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

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

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

$33 = 3 \times 11$

LCM =  $2 \times 3 \times 5 \times 11$

= **330**

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

$44 = 2^2 \times 11$

LCM =  $2^2 \times 3 \times 7 \times 11$

= **924**

3.  $40 = 2^3 \times 5$

$32 = 2^5$

LCM =  $2^5 \times 5$

= **160**

4.  $21 = 3 \times 7$

$45 = 3^2 \times 5$

LCM =  $3^2 \times 5 \times 7$

= **315**

5.  $15 = 3 \times 5$

$42 = 2 \times 3 \times 7$

LCM =  $2 \times 3 \times 5 \times 7$

= **210**

6.  $20 = 2^2 \times 5$

$6 = 2 \times 3$

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

= **60**

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

$38 = 2 \times 19$

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

= **380**

8.  $25 = 5^2$

$20 = 2^2 \times 5$

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

= **100**

9.  $38 = 2 \times 19$

$12 = 2^2 \times 3$

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

= **228**

10.  $40 = 2^3 \times 5$

$18 = 2 \times 3^2$

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

= **360**

# Least Common Multiple (C)

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

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

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

1. 26 =

28 =

LCM =

2. 50 =

45 =

LCM =

3. 50 =

22 =

LCM =

4. 45 =

18 =

LCM =

5. 24 =

34 =

LCM =

6. 12 =

30 =

LCM =

7. 34 =

6 =

LCM =

8. 20 =

36 =

LCM =

9. 26 =

39 =

LCM =

10. 34 =

46 =

LCM =

# Least Common Multiple (C)

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

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

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

1.  $26 = 2 \times 13$

$28 = 2^2 \times 7$

LCM =  $2^2 \times 7 \times 13$

= **364**

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

$45 = 3^2 \times 5$

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

= **450**

3.  $50 = 2 \times 5^2$

$22 = 2 \times 11$

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

= **550**

4.  $45 = 3^2 \times 5$

$18 = 2 \times 3^2$

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

= **90**

5.  $24 = 2^3 \times 3$

$34 = 2 \times 17$

LCM =  $2^3 \times 3 \times 17$

= **408**

6.  $12 = 2^2 \times 3$

$30 = 2 \times 3 \times 5$

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

= **60**

7.  $34 = 2 \times 17$

$6 = 2 \times 3$

LCM =  $2 \times 3 \times 17$

= **102**

8.  $20 = 2^2 \times 5$

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

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

= **180**

9.  $26 = 2 \times 13$

$39 = 3 \times 13$

LCM =  $2 \times 3 \times 13$

= **78**

10.  $34 = 2 \times 17$

$46 = 2 \times 23$

LCM =  $2 \times 17 \times 23$

= **782**

## Least Common Multiple (D)

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

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

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

1. 10 =

42 =

LCM =

2. 46 =

32 =

LCM =

3. 8 =

28 =

LCM =

4. 8 =

26 =

LCM =

5. 28 =

50 =

LCM =

6. 34 =

14 =

LCM =

7. 25 =

40 =

LCM =

8. 38 =

44 =

LCM =

9. 33 =

18 =

LCM =

10. 36 =

33 =

LCM =

## Least Common Multiple (D)

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

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

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

$$\begin{aligned} 1. \quad 10 &= 2 \times 5 \\ 42 &= 2 \times 3 \times 7 \\ \text{LCM} &= 2 \times 3 \times 5 \times 7 \\ &= 210 \end{aligned}$$

$$\begin{aligned} 2. \quad 46 &= 2 \times 23 \\ 32 &= 2^5 \\ \text{LCM} &= 2^5 \times 23 \\ &= 736 \end{aligned}$$

$$\begin{aligned} 3. \quad 8 &= 2^3 \\ 28 &= 2^2 \times 7 \\ \text{LCM} &= 2^3 \times 7 \\ &= 56 \end{aligned}$$

$$\begin{aligned} 4. \quad 8 &= 2^3 \\ 26 &= 2 \times 13 \\ \text{LCM} &= 2^3 \times 13 \\ &= 104 \end{aligned}$$

$$\begin{aligned} 5. \quad 28 &= 2^2 \times 7 \\ 50 &= 2 \times 5^2 \\ \text{LCM} &= 2^2 \times 5^2 \times 7 \\ &= 700 \end{aligned}$$

$$\begin{aligned} 6. \quad 34 &= 2 \times 17 \\ 14 &= 2 \times 7 \\ \text{LCM} &= 2 \times 7 \times 17 \\ &= 238 \end{aligned}$$

$$\begin{aligned} 7. \quad 25 &= 5^2 \\ 40 &= 2^3 \times 5 \\ \text{LCM} &= 2^3 \times 5^2 \\ &= 200 \end{aligned}$$

$$\begin{aligned} 8. \quad 38 &= 2 \times 19 \\ 44 &= 2^2 \times 11 \\ \text{LCM} &= 2^2 \times 11 \times 19 \\ &= 836 \end{aligned}$$

$$\begin{aligned} 9. \quad 33 &= 3 \times 11 \\ 18 &= 2 \times 3^2 \\ \text{LCM} &= 2 \times 3^2 \times 11 \\ &= 198 \end{aligned}$$

$$\begin{aligned} 10. \quad 36 &= 2^2 \times 3^2 \\ 33 &= 3 \times 11 \\ \text{LCM} &= 2^2 \times 3^2 \times 11 \\ &= 396 \end{aligned}$$



# 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**

# Least Common Multiple (F)

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

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

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

1. 33 =

45 =

LCM =

2. 40 =

28 =

LCM =

3. 15 =

25 =

LCM =

4. 20 =

46 =

LCM =

5. 4 =

26 =

LCM =

6. 6 =

50 =

LCM =

7. 16 =

20 =

LCM =

8. 35 =

21 =

LCM =

9. 44 =

14 =

LCM =

10. 14 =

40 =

LCM =

## Least Common Multiple (F)

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

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

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

1.  $33 = 3 \times 11$

$$45 = 3^2 \times 5$$

$$\text{LCM} = 3^2 \times 5 \times 11$$

$$= 495$$

2.  $40 = 2^3 \times 5$

$$28 = 2^2 \times 7$$

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

$$= 280$$

3.  $15 = 3 \times 5$

$$25 = 5^2$$

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

$$= 75$$

4.  $20 = 2^2 \times 5$

$$46 = 2 \times 23$$

$$\text{LCM} = 2^2 \times 5 \times 23$$

$$= 460$$

5.  $4 = 2^2$

$$26 = 2 \times 13$$

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

$$= 52$$

6.  $6 = 2 \times 3$

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

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

$$= 150$$

7.  $16 = 2^4$

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

$$\text{LCM} = 2^4 \times 5$$

$$= 80$$

8.  $35 = 5 \times 7$

$$21 = 3 \times 7$$

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

$$= 105$$

9.  $44 = 2^2 \times 11$

$$14 = 2 \times 7$$

$$\text{LCM} = 2^2 \times 7 \times 11$$

$$= 308$$

10.  $14 = 2 \times 7$

$$40 = 2^3 \times 5$$

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

$$= 280$$

# Least Common Multiple (G)

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

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

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

1.  $6 =$

$33 =$

LCM =

2.  $18 =$

$22 =$

LCM =

3.  $10 =$

$35 =$

LCM =

4.  $40 =$

$38 =$

LCM =

5.  $45 =$

$12 =$

LCM =

6.  $26 =$

$14 =$

LCM =

7.  $15 =$

$18 =$

LCM =

8.  $28 =$

$38 =$

LCM =

9.  $36 =$

$10 =$

LCM =

10.  $8 =$

$20 =$

LCM =

# Least Common Multiple (G)

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

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

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

1.  $6 = 2 \times 3$

$33 = 3 \times 11$

LCM =  $2 \times 3 \times 11$

=  $66$

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

$22 = 2 \times 11$

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

=  $198$

3.  $10 = 2 \times 5$

$35 = 5 \times 7$

LCM =  $2 \times 5 \times 7$

=  $70$

4.  $40 = 2^3 \times 5$

$38 = 2 \times 19$

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

=  $760$

5.  $45 = 3^2 \times 5$

$12 = 2^2 \times 3$

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

=  $180$

6.  $26 = 2 \times 13$

$14 = 2 \times 7$

LCM =  $2 \times 7 \times 13$

=  $182$

7.  $15 = 3 \times 5$

$18 = 2 \times 3^2$

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

=  $90$

8.  $28 = 2^2 \times 7$

$38 = 2 \times 19$

LCM =  $2^2 \times 7 \times 19$

=  $532$

9.  $36 = 2^2 \times 3^2$

$10 = 2 \times 5$

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

=  $180$

10.  $8 = 2^3$

$20 = 2^2 \times 5$

LCM =  $2^3 \times 5$

=  $40$

# 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.  $15 = 3 \times 5$

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

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

$$= 150$$



# 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 =  $3 \times 7^2$

= **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**

# Least Common Multiple (J)

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

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

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

1. 34 =

40 =

LCM =

2. 16 =

24 =

LCM =

3. 12 =

28 =

LCM =

4. 42 =

20 =

LCM =

5. 22 =

48 =

LCM =

6. 15 =

20 =

LCM =

7. 10 =

4 =

LCM =

8. 9 =

12 =

LCM =

9. 45 =

20 =

LCM =

10. 34 =

30 =

LCM =

# Least Common Multiple (J)

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

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

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

1.  $34 = 2 \times 17$

$40 = 2^3 \times 5$

LCM =  $2^3 \times 5 \times 17$   
= **680**

2.  $16 = 2^4$

$24 = 2^3 \times 3$

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

3.  $12 = 2^2 \times 3$

$28 = 2^2 \times 7$

LCM =  $2^2 \times 3 \times 7$   
= **84**

4.  $42 = 2 \times 3 \times 7$

$20 = 2^2 \times 5$

LCM =  $2^2 \times 3 \times 5 \times 7$   
= **420**

5.  $22 = 2 \times 11$

$48 = 2^4 \times 3$

LCM =  $2^4 \times 3 \times 11$   
= **528**

6.  $15 = 3 \times 5$

$20 = 2^2 \times 5$

LCM =  $2^2 \times 3 \times 5$   
= **60**

7.  $10 = 2 \times 5$

$4 = 2^2$

LCM =  $2^2 \times 5$   
= **20**

8.  $9 = 3^2$

$12 = 2^2 \times 3$

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

9.  $45 = 3^2 \times 5$

$20 = 2^2 \times 5$

LCM =  $2^2 \times 3^2 \times 5$   
= **180**

10.  $34 = 2 \times 17$

$30 = 2 \times 3 \times 5$

LCM =  $2 \times 3 \times 5 \times 17$   
= **510**