

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.

1. $10 = 2 \times 5$

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

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

$$= 210$$

2. $46 = 2 \times 23$

$$32 = 2^5$$

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

$$= 736$$

3. $8 = 2^3$

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

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

$$= 56$$

4. $8 = 2^3$

$$26 = 2 \times 13$$

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

$$= 104$$

5. $28 = 2^2 \times 7$

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

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

$$= 700$$

6. $34 = 2 \times 17$

$$14 = 2 \times 7$$

$$\text{LCM} = 2 \times 7 \times 17$$

$$= 238$$

7. $25 = 5^2$

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

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

$$= 200$$

8. $38 = 2 \times 19$

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

$$\text{LCM} = 2^2 \times 11 \times 19$$

$$= 836$$

9. $33 = 3 \times 11$

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

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

$$= 198$$

10. $36 = 2^2 \times 3^2$

$$33 = 3 \times 11$$

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

$$= 396$$