

Least Common Multiple (A)

Name: _____

Date: _____

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

1. 90 =

39 =

LCM =

2. 70 =

60 =

LCM =

3. 16 =

28 =

LCM =

4. 76 =

86 =

LCM =

5. 68 =

58 =

LCM =

6. 66 =

10 =

LCM =

7. 56 =

46 =

LCM =

8. 39 =

57 =

LCM =

9. 20 =

48 =

LCM =

10. 74 =

4 =

LCM =

Least Common Multiple (A)

Name: _____

Date: _____

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

1. $90 = 2 \times 3^2 \times 5$

$39 = 3 \times 13$

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

= **1170**

2. $70 = 2 \times 5 \times 7$

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

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

= **420**

3. $16 = 2^4$

$28 = 2^2 \times 7$

LCM = $2^4 \times 7$

= **112**

4. $76 = 2^2 \times 19$

$86 = 2 \times 43$

LCM = $2^2 \times 19 \times 43$

= **3268**

5. $68 = 2^2 \times 17$

$58 = 2 \times 29$

LCM = $2^2 \times 17 \times 29$

= **1972**

6. $66 = 2 \times 3 \times 11$

$10 = 2 \times 5$

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

= **330**

7. $56 = 2^3 \times 7$

$46 = 2 \times 23$

LCM = $2^3 \times 7 \times 23$

= **1288**

8. $39 = 3 \times 13$

$57 = 3 \times 19$

LCM = $3 \times 13 \times 19$

= **741**

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

$48 = 2^4 \times 3$

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

= **240**

10. $74 = 2 \times 37$

$4 = 2^2$

LCM = $2^2 \times 37$

= **148**