Least Common Multiple

Name:_____ Date:_____

Find least common multiple by using prime factorization method.

1) **40, 35, 20**

Factors of 40 = _____

Factors of 35 = _____

Factors of 20 = _____

LCM(40, 35, 20)

2) **40, 30, 12**

Factors of 40 = _____

Factors of 30 = _____

Factors of 12 = _____

LCM(40, 30, 12)

3) **30, 25, 15**

Factors of 30 = _____

Factors of 25 = _____

Factors of 15 = _____

LCM(30, 25, 15)

4) **36, 18, 9**

Factors of 36 = _____

Factors of 18 = _____

Factors of 9 = _____

LCM(36, 18, 9)

5) **14, 8, 16**

Factors of 14 = _____

Factors of 8 = _____

Factors of 16 = _____

LCM(14, 8, 16)

Least Common Multiple

Name:_____ Date:_____

Find least common multiple by using prime factorization method.

1) **40, 35, 20**

Factors of 40 = 1, 2, 4, 5, 8, 10, 20, 40

Factors of 35 = 1, 5, 7, 35

Factors of 20 = 1, 2, 4, 5, 10, 20

LCM(40, 35, 20)

280

2) **40, 30, 12**

Factors of 40 = 1, 2, 4, 5, 8, 10, 20, 40

Factors of 30 = 1, 2, 3, 5, 6, 10, 15, 30

Factors of 12 = 1, 2, 3, 4, 6, 12

LCM(40, 30, 12)

120

3) **30, 25, 15**

Factors of 30 = 1, 2, 3, 5, 6, 10, 15, 30

Factors of 25 = 1, 5, 25

Factors of 15 = 1, 3, 5, 15

LCM(30, 25, 15)

150

4) **36, 18, 9**

Factors of 36 = 1, 2, 3, 4, 6, 9, 12, 18, 36

Factors of 18 = 1, 2, 3, 6, 9, 18

Factors of 9 = 1, 3, 9

LCM(36, 18, 9)

36

5) **14, 8, 16**

Factors of 14 = 1, 2, 7, 14

Factors of 8 = 1, 2, 4, 8

Factors of 16 = 1, 2, 4, 8, 16

LCM(14, 8, 16)

112