Least Common Multiple

Name:_____   Date:_____

Find the smallest multiple that three numbers have in common.

1) **6, 9, 15**

Multiples of 6   =   6,12,18,24,30,36,42,48,54,60,66,72,78,84,90

Multiples of 9   =   9,18,27,36,45,54,63,72,81,90,99,108,117,126

Multiples of 15   =   15,30,45,60,75,90,105,120,135,150,165,180

LCM (6, 9, 15)

2) **8, 12, 4**

Multiples of 8   =   _____

Multiples of 12   =   _____

Multiples of 4   =   _____

LCM (12, 8, 4)

3) **15, 12, 10**

Multiples of 15   =   _____

Multiples of 12   =   _____

Multiples of 10   =   _____

LCM (15, 12, 10)

4) **18, 8, 9**

Multiples of 18   =   _____

Multiples of 8   =   _____

Multiples of 9   =   _____

LCM (18, 8, 9)

5) **14, 4, 8**

Multiples of 14   =   _____

Multiples of 4   =   _____

Multiples of 8   =   _____

LCM (14, 4, 8)

Least Common Multiple

Find the smallest multiple that three numbers have in common.

1) **6, 9, 15**

Multiples of 6   =   6,12,18,24,30,36,42,48,54,60,66,72,78,84,90

Multiples of 9   =   9,18,27,36,45,54,63,72,81,90,99,108,117,126

Multiples of 15 =   15,30,45,60,75,90,105,120,135,150,165,180

LCM (6, 9, 15)

90

2) **8, 12, 4**

Multiples of 8   =   8,16,24,32,40,48,56,64,72,80

Multiples of 12 =   12,24,36,48,60,72,84,96

Multiples of 4   =   4,8,12,16,20,24,28,32,36

LCM (12, 8, 4)

24

3) **15, 12, 10**

Multiples of 15 =   15,30,45,60,75,90,105,120

Multiples of 12 =   12,24,36,48,60,72,84,96

Multiples of 10 =   10,20,30,40,50,60,70,80

LCM (15, 12, 10)

60

4) **18, 8, 9**

Multiples of 18 =   18,36,54,72,90,108

Multiples of 8   =   8,16,24,32,40,48,56,64,72,80,88,96

Multiples of 9   =   9,18,27,36,45,54,63,72,81,90

LCM (18, 8, 9)

72

5) **14, 4, 8**

Multiples of 14 =   14,28,42,56,70,84,98

Multiples of 4   =   4,8,12,16,20,24,28,32,36,40,44,48,52,56,60,64

Multiples of 8   =   8,16,24,32,40,48,56,64,72

LCM (14, 4, 8)

56