Least Common Multiple

Multiples are numbers that can be generated by SKIP COUNTING

1. Find the Least Common Multiple of 3 and 4.

2. Find the LCM of 6 and 8

3. Find the LCM of 4 and 24

4. Find the LCM of 5 and 12

5. Find the LCM of 6, 8, and 12

Prime Factorization (Factor Trees)

Prime Numbers: _____

Some Prime Numbers

Prime Factorization Trees: 30

Got It?

Find the prime factorization of 90.

You Try:

72 84 144

Least Common Multiple

Multiples are numbers that can be generated by SKIP COUNTING

1. Find the Least Common Multiple of 3 and 4.

3: 3, 6, 9, (12), 15

4: 4, 8, (12), 16

LCM = 12

2. Find the LCM of 6 and 8

6: 6, 12, 18, (24) 30

8: 8, 16, (24) 32

LCM = 24

3. Find the LCM of 4 and 24

4: 4, 8, 12, 16, 20, (24)

24: (24)

LCM = 24

4. Find the LCM of 5 and 12

5: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, (60)

12: 12, 24, 36, 48, (60)

LCM = 60

5. Find the LCM of 6, 8, and 12

6: 6, 12, 18, (24) 30

8: 8, 16, (24), 32

12: 12, (24) 36

LCM = 24

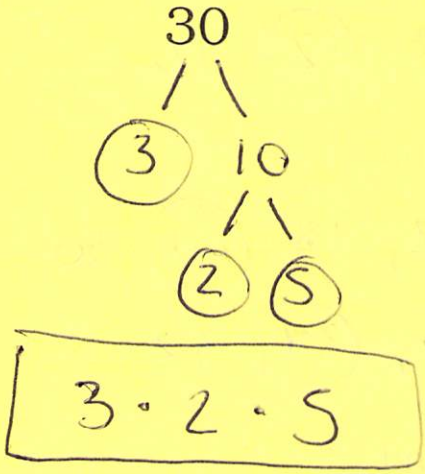
Prime Factorization (Factor Trees)

Prime Numbers: Have EXACTLY 2 Factors: 1 and itself

Some Prime Numbers

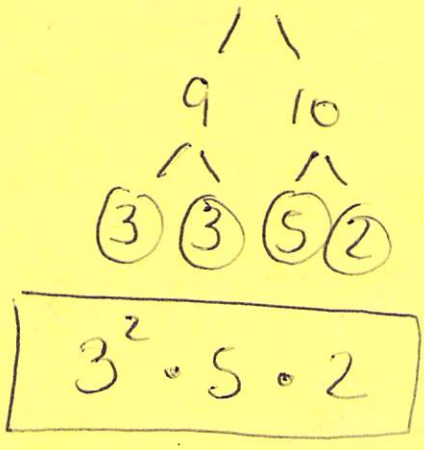
2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, ...

Prime Factorization Trees:



Got It?

Find the prime factorization of 90.



You Try: