Multiples, Common Multiples, and Least Common Multiples

Connect

The multiples of 5 are
5, 10, 15, 20, 25, 30, ...

5 is the first multiple of 5 because 5x1=5
10 is the second multiple of 5, because 5x2=10
15 is the third multiple of 5, because 5x3=15

100 is the twentieth multiple of 5 because 5x20=100

I do

The multiples of 5 are: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ...

The multiples of 2 are: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, ...

Common Multiples

Least Common Multiples

I d

Hot dogs come in packages of 8.
Buns come in packages of 12.

What are some combinations of packs of hot dogs and buns that George Banks can buy so that he has the same number of each?

What is the FEWEST number of hot dogs and buns he can buy without having any extra?

We d

Multiples of 3: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ...

Multiples of 4: 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, ...

Common multiples

Least common multiple

We do

Dr D wants to give every student an Expo Marker and a glue stick. Glue sticks come in packages of 3, and expo markers come in packages of 8.

What are some combinations of packages he can buy so that he doesn't have any leftover of either item?

What is the FEWEST sets of markers/glue he can make without having any extra of each?

You do together on whiteboard

Muffins come in packages of 6. Orange juice comes in packages of 8.

You want to give your friends one muffin and one OJ.

What is the fewest number of packages of each that you can buy so that you have an equal number of both?

You do alone on index card

Duct tape comes in packages of 4. Masking tape comes in packages of 10.

Dr D wants to make sets with one roll of each kind of tape.

What is the fewest packages of each he can buy so that he has an equal number of both?