

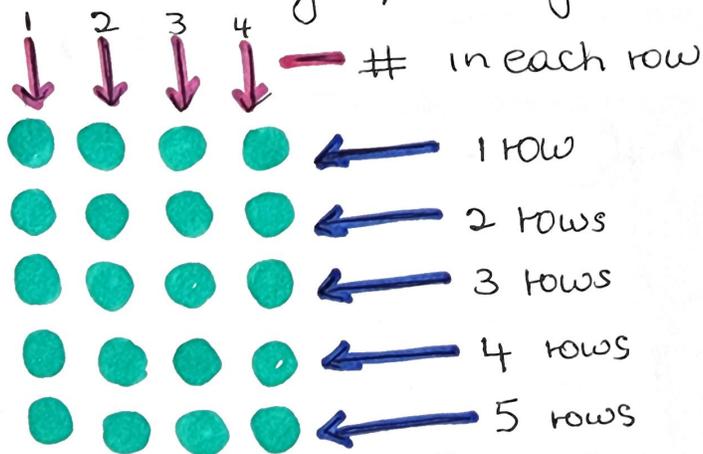
# Arrays — Graduation Day in the park

Arrays show objects in rows and columns.

For the graduation ceremony Mudge and his friends have to sit in rows, on the grass. There are five (5) rows of dogs. Each row has 4 dogs. How many dogs were seated on the grass.

\* Remember, rows are horizontal  $\longrightarrow$   
and columns are vertical  $\downarrow$

5 rows of dogs, 4 dogs in each row

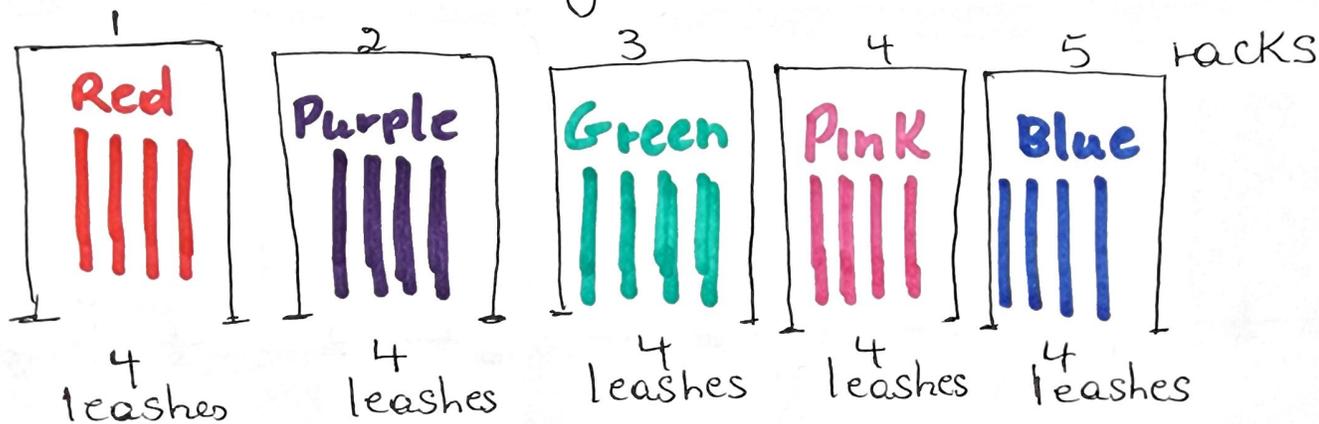


$$5 \times 4 = 20$$

$$4 + 4 + 4 + 4 + 4 = 20$$

## Equal groups — Pet Store leashes

Henry has to buy a new leash for Mudge. At the pet store Henry saw 5 groups of leashes. Each group had 4 leashes on the rack. How many leashes did Henry have to choose from?



5 groups 4 in each group

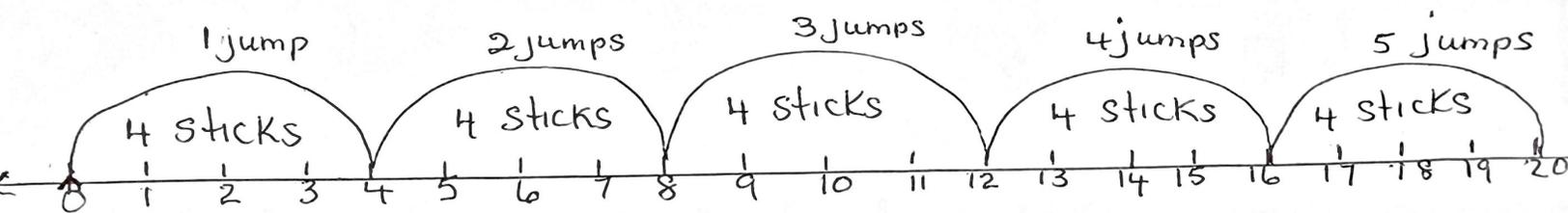
multiplication sentence -  $5 \times 4 = 20$

repeated addition sentence  $4 + 4 + 4 + 4 + 4 = 20$

\* In equal groups, each group has to have the same amount of objects.

# Number line - Mudge's Obstacle Course Test

Mudge has to jump 5 times along the track. Each jump is 4 sticks long. How many sticks will Mudge jump altogether?



5 jumps 4 sticks

multiplication sentence —  $5 \times 4 = 20$  sticks

repeated addition sentence —  $4 + 4 + 4 + 4 + 4 = 20$

\* you can also skip count 4, 8, 12, 16, 20

## Questions for teams and independent work.

1. A small movie theater has 7 rows. Each row can seat 4 people. When filled, how many people will be seated in the theater?
2. Jill is very good at hop-scotch. She can jump 6 times, each jump is 3 squares long. How many squares will she jump in all?
3. Mary has candy bags for her 5 friends. Each bag has 4 candies inside. How many candies did Mary give her friends?