

Problems about two (possibly intersecting) sets
(where there is one correct answer)

name: _____

10 am/2 pm

(half) 14

$F = \frac{\text{students that have fidget spinners}}{2}$

1. There are 28 students in Mr Johnson's class.

- 22 of the students have a fidget spinner or a cell phone.
- 10 students have both a fidget spinner and a cell phone.
- Half of Mr Johnson's students do not have a cell phone.

include both
 $28 - 22 =$ number on outside (neither)
 $\frac{14}{2}$ of the students do have a cell phone

How many students have a fidget spinner?

Students in Mr Johnson's class



$$L + M + R = 22$$

$$M = 10$$

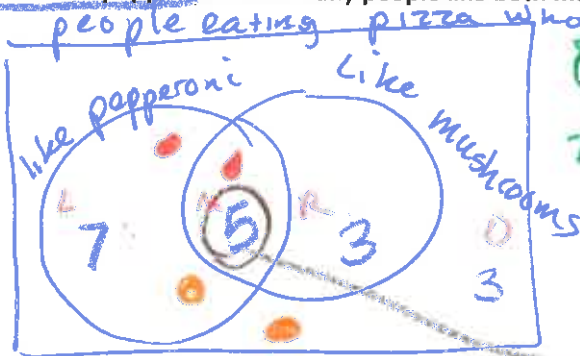
$$L + 0 = 14$$

$$M + R = 14$$

$$0 = 6$$

18 have a fidget spinner

2. 18 people will be eating pizza. 12 people like pepperoni, 10 people do not like mushrooms. 3 people like neither mushrooms nor pepperoni. How many people like both mushrooms and pepperoni?



$$L + M = 12$$

$$L + 0 = 10$$

$$0 = 3$$

$$18 - (7 + 5 + 3) = 3$$

5 like both

3. There are 24 animals in the petting zoo.

- 10 of the animals are not small enough to pick up
- 18 of the animals are furry
- 4 animals are not furry and are not small enough to pick up.

How many animals that are small enough to pick up are not furry?