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

name:_____

1. There are 28 students in Mr Johnson's class.
   - 22 of the students have a fidget spinner or a cell phone. → 28-22=6  6 have neither
   - 10 students have both a fidget spinner and a cell phone.
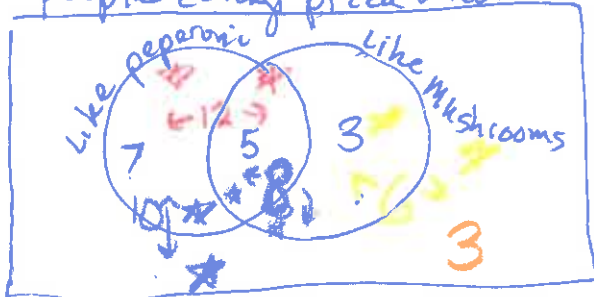   - Half of Mr Johnson's students do not have a cell phone. → half v do have a cell phone
   
How many students have a fidget spinner?                                                14

Students in Mr. Johnson's class who...



18 have a f.s.

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?

People eating pizza who..



12 Like pepperoni → 6 don't like p.

10 dont like mushrooms → 8 do like m

$O = 3$

$L + M = 12$

$L + O = 10$
    3

$R + O = 6$

$R + 3 = 6$ so $R = 3$

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?