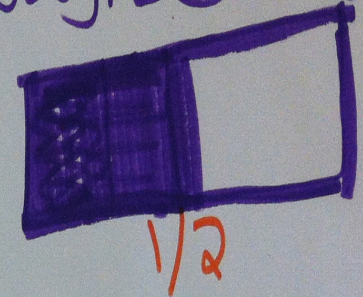
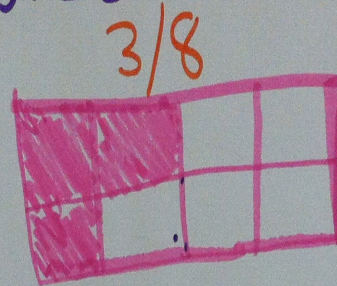


## Student 1

Javier Claims that  $\frac{1}{2} < \frac{3}{8}$ .  
Do you agree or disagree and  
Why?

C  
started



- We ~~disagree~~ disagree with Javier because <sup>if we</sup> put  $\frac{1}{2}$  and  $\frac{3}{8}$  in equivalent fractions and it was  $\frac{1}{2}$  changed to  $\frac{4}{8}$  and  $\frac{3}{8}$  stayed the same and  $\frac{4}{8}$  was bigger than  $\frac{3}{8}$   $\frac{3}{8} < \frac{1}{2}$ .
- We <sup>also</sup> disagree because  $\frac{1}{2}$  could be half of anything like 100,000, 10,000 and  $\frac{3}{8}$  is just  $\frac{3}{8}$ .
- We <sup>we</sup> disagree with Javier because we think  $\frac{3}{8}$  is less and  $\frac{1}{2}$  is more because  $\frac{3}{8}$  is not even equal yet because if you change the 3 to a 4 it would be equal.
- We disagree because if you have 1 whole and put  $\frac{1}{2}$  on the 1 whole that will be more covered than  $\frac{3}{8}$  on 1 whole.

R  
is missing



## Student 2

Javier claims that  $\frac{1}{2} < \frac{3}{8}$ . Do you agree or disagree?  $\frac{4}{8}$

C

We disagree with Javier because if we have a cookie and we ate half of it we would have half left

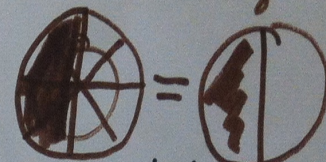
E

Is the strongest

But if we ate

$\frac{4}{8}$  of the cookie it would just be an equivalent fraction to  $\frac{1}{2}$ .

Missing Parts



Equivalent fraction

E



## Student 3

Javier claims  $\frac{1}{2} < \frac{3}{8}$ . Do you agree or disagree and why?

We disagree because if you look at our picture it shows  $\frac{3}{8}$  is less than  $\frac{1}{2}$ . If you ADD ONE MORE  $\frac{1}{8}$  ~~TO IT~~ THEN IT WILL ~~BECOME~~ EQUAL  $\frac{1}{2}$ .

If you added 1 more  $\frac{1}{8}$  to  $\frac{4}{8}$  Then it would be more than  $\frac{1}{2}$ .

$\frac{1}{2} = \frac{4}{8}$

$\frac{1}{2}$   $\frac{3}{8}$

$\frac{1}{2}$   $\frac{5}{8}$

$\frac{1}{2}$   $\frac{3}{8}$

W/R  
3

No Evidence

The student's work is written on a piece of paper with yellow sticky notes. The main text is in red and orange ink. The student claims that  $\frac{3}{8}$  is less than  $\frac{1}{2}$  and shows how adding  $\frac{1}{8}$  to  $\frac{4}{8}$  (which is  $\frac{1}{2}$ ) results in  $\frac{5}{8}$ , which is more than  $\frac{1}{2}$ . The student includes fraction models using circles divided into 8 parts. One model shows  $\frac{1}{2}$  (4 parts shaded) and  $\frac{3}{8}$  (3 parts shaded). Another model shows  $\frac{1}{2}$  (4 parts shaded) and  $\frac{5}{8}$  (5 parts shaded). A third model shows  $\frac{1}{2}$  (4 parts shaded) and  $\frac{3}{8}$  (3 parts shaded). The student also includes a sticky note that says "W/R 3" and another that says "No Evidence".

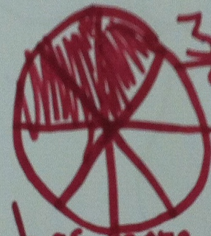
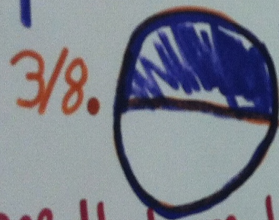


## Student 4

Javier claims that  $1/2 < 3/8$ . Do you agree or disagree and why? C

We disagree Because  $1/2$  is bigger than  $3/8$ .

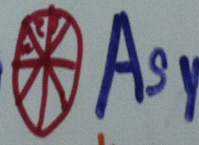
Our proof is that in  $1/2$  it has more shaded in than  $3/8$ . In this picture you



Can see that one half has more shaded in than three eighths. E

Another example is  $1/2 =$  to Four eighths and four eighths

is Bigger than  $3/8$ .



As you can see still  $4/8$  or  $1/2$  is bigger than  $3/8$ . That is why we disagree with Javier and think that  $1/2 > 3/8$  R



## Student 5

Javier claims that  $\frac{1}{2} < \frac{3}{8}$ . Do you agree or disagree and why?

C started

We disagree because the denominator in  $\frac{1}{2}$  is smaller than the denominator in  $\frac{3}{8}$ , so the smaller the denominator is the bigger the pieces are. Also if you make two circles and one of them is shaded in  $\frac{1}{2}$  and the other is  $\frac{3}{8}$ ,  $\frac{1}{2}$  has more of the circle shaded in than  $\frac{3}{8}$ .

R is missing



so one half is greater than  $\frac{3}{8}$ .

E

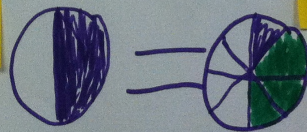


## Student 6

Javier claims that ~~an~~  $\frac{1}{2} < \frac{3}{8}$ . Do you agree or disagree?

C We disagree with Javier because  $\frac{1}{2}$  would be equivalent to  $\frac{4}{8}$ , not  $\frac{3}{8}$ . We think that  $\frac{3}{8}$  would be the smaller fraction.

R



E

