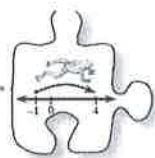


3.2.2 Where does it land?

Locating Negative Numbers



3-102 In one frog-jumping contest, a frog named ME-HOP started at zero, hopped 7 feet to the right, and then hopped 4 feet to the left. Meanwhile, Mr. Toad also started at zero, hopped 8 feet to the left, and then hopped 1 foot to the right.

3-10

Number sentence

- a. Write expressions to represent these hops for each frog.
- b. Which frog is farther ahead (that is, more to the right on the number line)? Explain.

b) ←

→

3-103 In each of the four contests below, two frogs are hopping. The two numbers given in each part show the frogs' final landing points. In each contest, which frog is farther ahead? (This question is another way of asking which frog is at the larger number.)

ME

Write an inequality statement (using < or >) to record your answer.

- a. -2 or 1
- b. 3 or -17
- c. -(3) or -(-3)
- d. 2 or 0

3-10

rat ad(-7).

relative value

3-104 Who was ahead in each of the following contests? Create a number line for each problem below and plot the landing point given for each frog. Then, represent your answer with an inequality.

- a. Froglic: $-\frac{5}{2}$ feet
Green Eyes: -2 feet
- b. Warty Niner: -3.85 feet
Slippery: -3.8 feet
- c. Rosie the Ribbiter: $-4\frac{1}{3}$
Pretty Lady: $-4\frac{2}{3}$

3-104

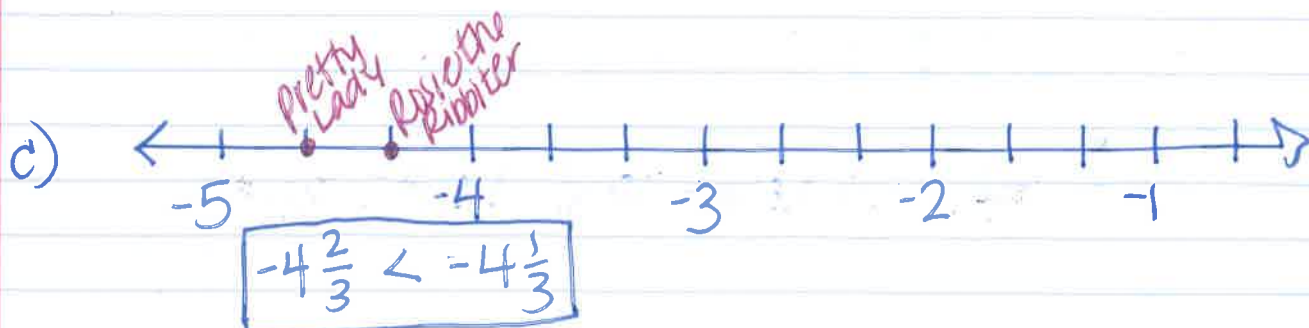
a) ←

→

$-3.85 <$

b)

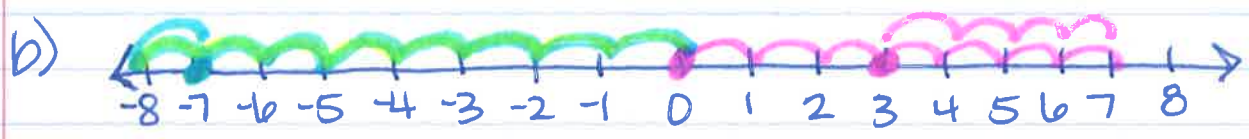
→



c)

①

3-102 a) ME-HOP: $0 + 7 - 4$
 MR. TOAD: $0 - 8 + 1$



I used a number line to determine that ME HOP is further right (3) than Mr. Toad (-7).

3-103 a. $-2 < 1$

b. $3 > -17$

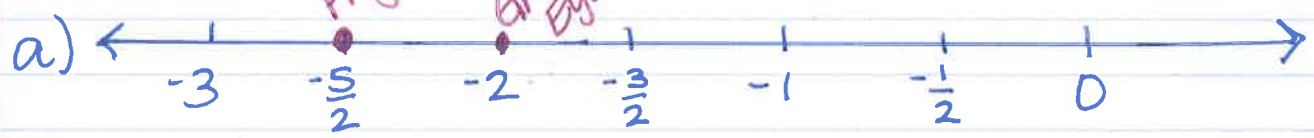
c. $-(3) < -(-3)$

d. $2 > 0$

A double negative makes the value positive.

3-104

$-\frac{5}{2} < -2$



$-3.85 < -3.8$

