

## Measurements in Fractions of Unit - Guided Lesson Explanation

### Explanation to #1

a) As we can see on number line, the longest finger is 4 and the shortest finger is  $2\frac{1}{2}$ .

Now to find the difference between the longest and shortest finger.

Subtract the shortest finger i.e.  $2\frac{1}{2}$  from the longest finger i.e. 4

Take L.C.M of

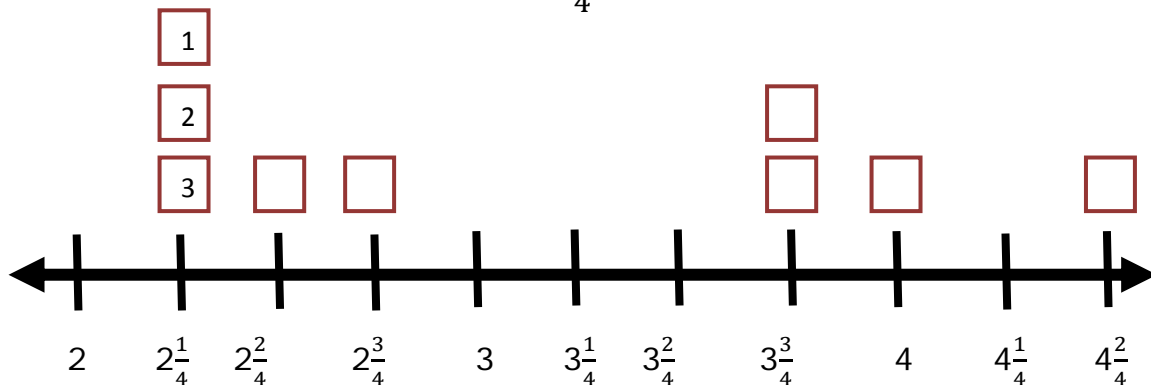
Denominators to subtract fractions

$$4 - 2\frac{1}{2} = \frac{8-5}{2} = \frac{3}{2} \text{ that is } 1\frac{1}{2}$$

So the difference between the longest and shortest finger is  $1\frac{1}{2}$

b) Observe the number line. We can clearly see that the most blocks are lying on  $2\frac{1}{4}$

So the most common finger size is  $2\frac{1}{4}$



c) Look at the number line carefully.  $2\frac{2}{4}$

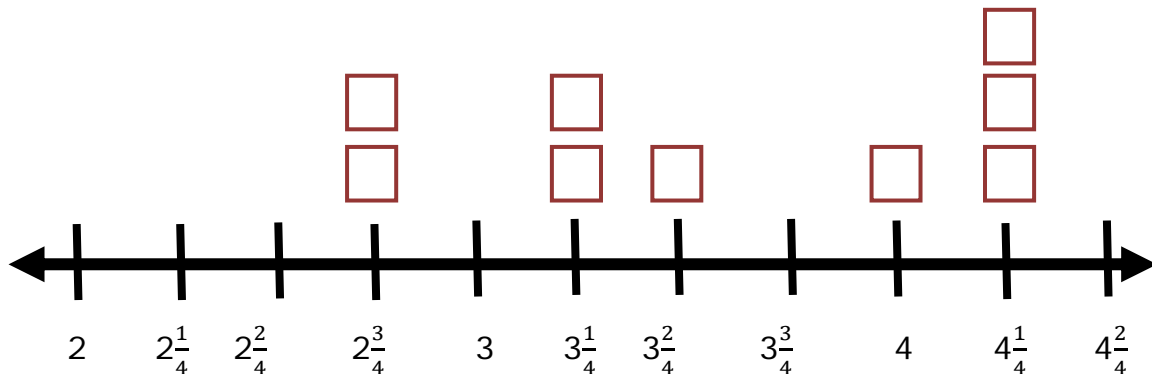
Count all the blocks which are less than  $2\frac{2}{4}$

The answer is 3.



Name \_\_\_\_\_

Date \_\_\_\_\_

**Explanation to #2**

a) As we can see on number line, the tallest student is  $4\frac{1}{4}$  feet and the shortest student is  $2\frac{3}{4}$  feet tall.

To find the difference between the longest and shortest student:

Subtract the shortest student i.e.  $2\frac{3}{4}$  from the tallest student i.e.  $4\frac{1}{4}$

Take L.C.M of

Denominators to subtract fractions

$$4\frac{1}{4} - 2\frac{3}{4} = \frac{17 - 11}{4} = \frac{6}{4} \text{ that is } 1\frac{2}{4}$$

So the difference between the tallest and shortest student is  $1\frac{2}{4}$

b) Observe the numbers line. We can clearly see that the most blocks are lying on  $4\frac{1}{4}$  feet

So the most common height is  $4\frac{1}{4}$  feet.



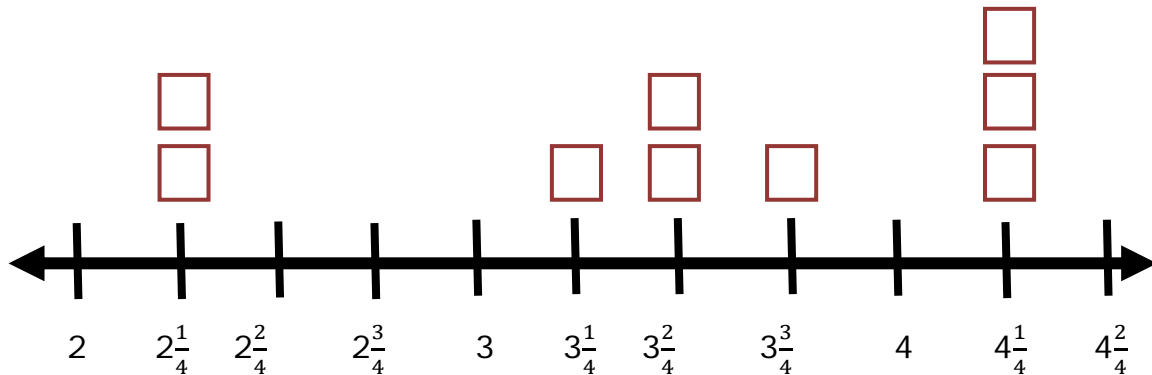
Name \_\_\_\_\_

Date \_\_\_\_\_

c) Count all blocks which are less than  $3\frac{2}{4}$

The answer is 4.

### Explanation to #3



a) As we can see on number line, the longest distance is  $4\frac{1}{4}$  miles and the shortest distance is  $2\frac{1}{4}$  miles.

To find the difference between the longest and shortest distance:

Subtract the shortest distance i.e.  $2\frac{1}{4}$  from the longest distance i.e.  $4\frac{1}{4}$

Take L.C.M of denominators to subtract fractions

$$4\frac{1}{4} - 2\frac{1}{4} = \frac{17 - 9}{4} = \frac{8}{4} \text{ that is } 2$$

So the difference between the longest and shortest distance is 2 miles.

b) Observe the numbers line. We can clearly see that the most blocks are lying on  $4\frac{1}{4}$

So the most common distance size is  $4\frac{1}{4}$  miles.



Name \_\_\_\_\_

Date \_\_\_\_\_

c) See the number line carefully.  $4\frac{1}{4}$

Count all the blocks that are less than  $4\frac{1}{4}$

The answer is 6.

