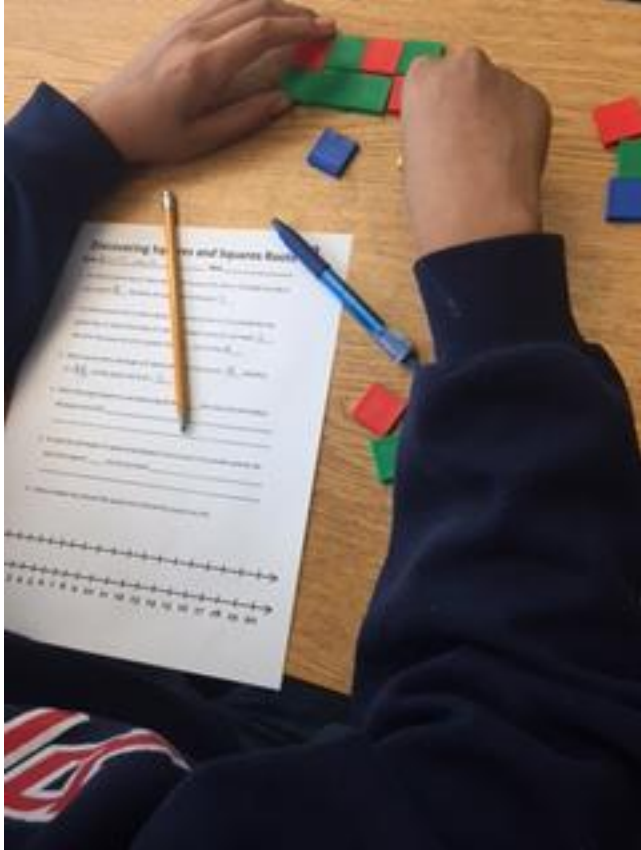
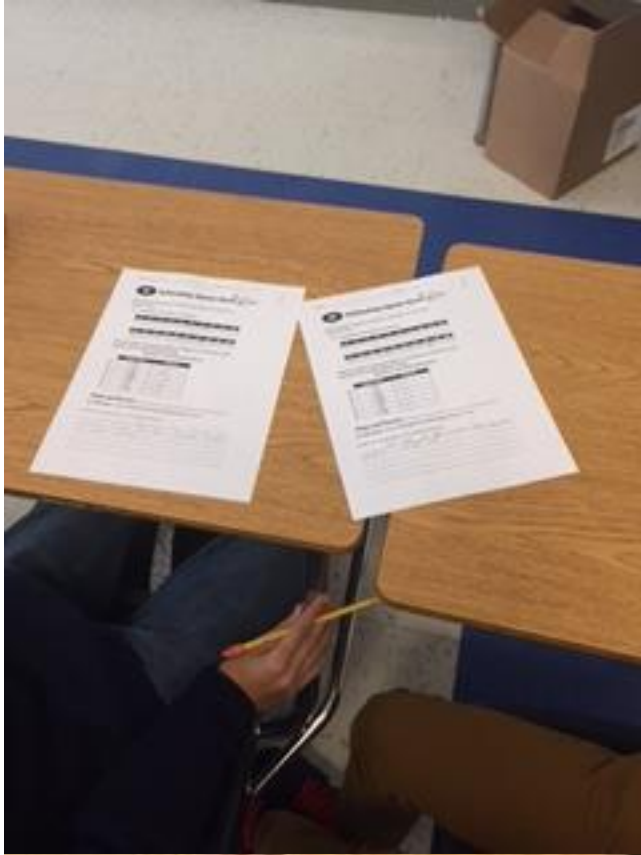
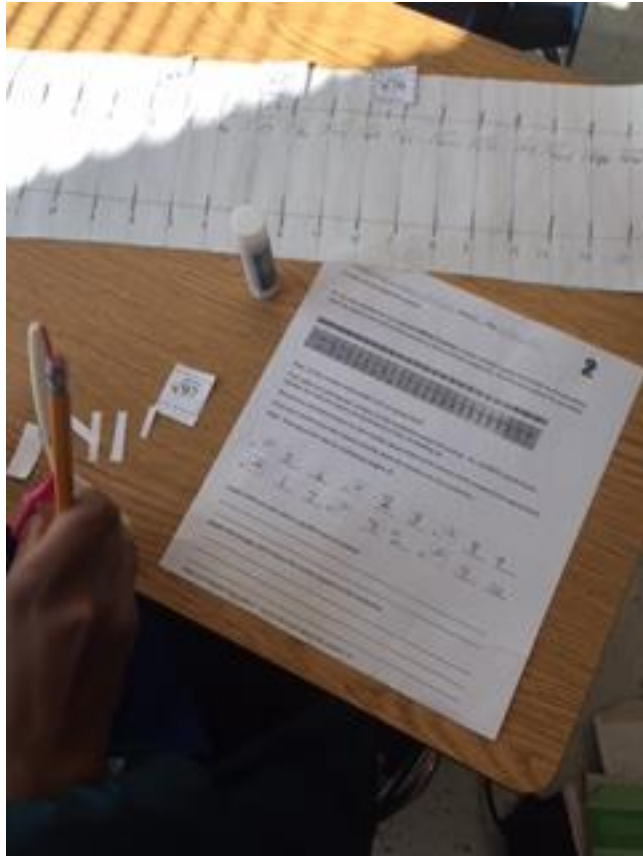


A student is sitting at a wooden desk, working on a math worksheet. The student is wearing a grey hoodie and is holding a purple marker. On the desk, there is a green plastic basket, a math worksheet with the title "Using the Number Line to Find the Sum", and a grid of colorful blocks (red, yellow, blue, green) arranged in a 5x5 pattern. There are also several loose blocks of the same colors scattered on the desk. The worksheet has a section for "Using the Number Line to Find the Sum" and a section for "Using the Number Line to Find the Difference".





Approximate the $\sqrt{3}$. Show all work.

~~f~~ To the nearest whole number $\textcircled{3}$
 1.0 $3\sqrt{3}$

~~g~~ To the nearest tenth
 0.3

Journey Sanders

Low

Approximate the $\sqrt{3}$. Show all work.

d) To the nearest whole number $\textcircled{2}$
 2

~~e~~ To the nearest tenth
 1.5

Medium

Approximate the $\sqrt{3}$. Show all work.

①

a) To the nearest whole number

$$\begin{array}{r} 2.5 \\ \times 1.5 \\ \hline 5 \end{array}$$

②

$$\sqrt{3}$$

b) To the nearest tenth

$$\begin{array}{r} 2.5 \\ \times 1.5 \\ \hline 125 \\ + 150 \\ \hline 225 \end{array}$$

$$\begin{array}{r} 2 \\ \times 1.9 \\ \times 1.0 \\ \hline 1871 \\ + 190 \\ \hline 3.61 \end{array}$$

①.7

High

Approximate the $\sqrt{2}$ Show all work

1. To the nearest whole number (1)

$\sqrt{2} \approx 1$

2. To the nearest tenth (2)

$\sqrt{2} \approx 1.4$

3. To the nearest hundredth (3)

$\sqrt{2} \approx 1.41$

Approximate the $\sqrt{2}$ Show all work

1. To the nearest whole number (1)

$\sqrt{2} \approx 1$

2. To the nearest tenth (2)

$\sqrt{2} \approx 1.4$

Approximate the $\sqrt{2}$ Show all work

1. To the nearest whole number (1)

$\sqrt{2} \approx 1$

2. To the nearest tenth (2)

$\sqrt{2} \approx 1.4$

3. To the nearest hundredth (3)

$\sqrt{2} \approx 1.41$

0.5

Jessica Swales

Name _____ Period _____ Date _____

Each square root is between two integers. Name the integers.

1. $\sqrt{10}$ 2. $\sqrt{18}$ 3. $\sqrt{31}$ 4. $\sqrt{38}$
3+4 4+5 5+8 6+7

Find each value to the nearest tenth.

5. $\sqrt{10}$ 6. $\sqrt{18}$ 7. $\sqrt{31}$ 8. $\sqrt{38}$
3.2 4.2 5.6 6.2

The length of the hypotenuse of a right triangle is the square root of the sum of the squares of the measures of the other two legs of the triangle. Approximate the length of the hypotenuse of a right triangle if the legs have measures 12 and 16.

$$\begin{aligned} A^2 + B^2 &= C^2 & 12^2 &+& 16^2 \\ 12^2 + 16^2 &= C^2 & 144 &+& 256 \\ 360 &= C^2 & & & 360 \\ \sqrt{360} &= C & & & \sqrt{360} \\ 18.97 &= C & & & 19 \end{aligned}$$

So the hypotenuse is 19