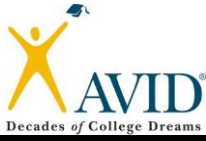


Cornell Notes**Topic: M7 L8 Comparing Irrational Numbers**

8.NS.A.2 Use rational approximations of irrational numbers to compare the size of irrational numbers. Locate them approximately on a number line diagram, and estimate their values.

Name:**Class/Period:****Date:****Learning Target: I can****Questions:****Notes:**

1. Rodney thinks that $\sqrt[3]{64}$ is greater than $\frac{17}{4}$. Sam thinks that $\frac{17}{4}$ is greater. Who is right and why? _____

2. Which number is smaller, $\sqrt[3]{27}$ or 2.89? Explain.

3. Which number is smaller, $\sqrt{121}$ or $\sqrt[3]{125}$? Explain.

4. Which number is smaller, $\sqrt{49}$ or $\sqrt[3]{216}$? Explain.

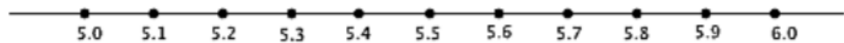
5. Which number is greater, $\sqrt{50}$ or $\frac{319}{45}$? Explain.

6. Which number is greater, $\frac{5}{11}$ or $0.\bar{4}$? Explain.

7. Which number is greater, $\sqrt{38}$ or $\frac{154}{25}$? Explain.

8. Which number is greater, $\sqrt{2}$ or $\frac{15}{9}$? Explain.

9. Place each of the following numbers at its approximate location on the number line: $\sqrt{25}$, $\sqrt{28}$, $\sqrt{30}$, $\sqrt{32}$, $\sqrt{35}$, and $\sqrt{36}$.



M7 L8 Classwork

Partner A Name: _____ Partner B Name: _____ Cohort: _____

Partner A do odd number questions

Partner B do even number questions

1. Which number is smaller, $\sqrt[3]{343}$ or $\sqrt{48}$? Explain.

2. Which number is smaller, $\sqrt{100}$ or $\sqrt[3]{1000}$? Explain.

3. Which number is larger, $\sqrt{87}$ or $\frac{929}{99}$? Explain.

4. Which number is larger, $\frac{9}{13}$ or $0.\overline{692}$? Explain.

M7 L8 Classwork

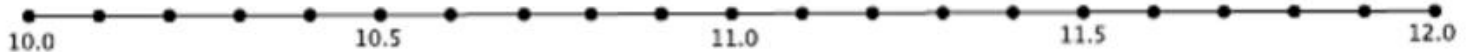
Partner A Name: _____ Partner B Name: _____ Cohort: _____

Partner A do odd number questions

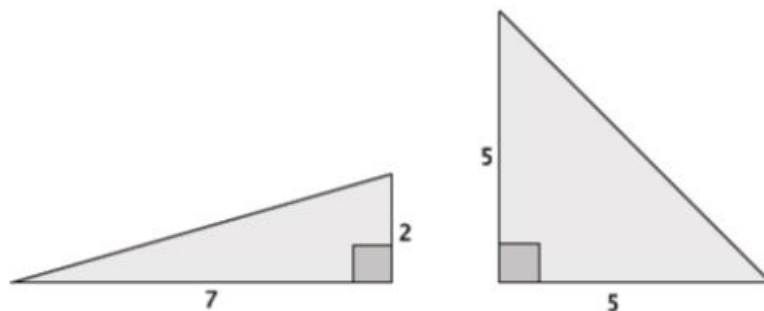
Partner B do even number questions

5. Which number is larger, 9.1 or $\sqrt{82}$? Explain.

6. Place each of the following numbers at its approximate location on the number line: $\sqrt{144}$, $\sqrt[3]{1000}$, $\sqrt{130}$, $\sqrt{110}$, $\sqrt{120}$, $\sqrt{115}$, and $\sqrt{133}$. Explain how you knew where to place the numbers.



7. Which of the two right triangles shown below, measured in units, has the longer hypotenuse? Approximately how much longer is it?



M7 L8 Comparing Irrational Numbers Exit Ticket

Name: _____ Cohort: _____

Exit Ticket

Place each of the following numbers at its approximate location on the number line: $\sqrt{12}$, $\sqrt{16}$, $\frac{20}{6}$, $3.\overline{53}$, and $\sqrt[3]{27}$.

