	Which of the following is an irrational	Select all the irrational numbers.	
	number?	$\square \frac{3}{2}$	
	A. √21	□ 1.5	
	B. 2.59×10^5	$\Box \frac{1}{9}$	
	C. <u>√81</u>	□ 1.414213	
UDC	D. $\frac{-1}{3}$	\Box 0. $\overline{45}$	
		□ 3.14159	
decima	Which of the fractions shown below represents the repeating decimal $0.\overline{25}$?	Write the rational number $\frac{3}{8}$ in decimal form:	
e 11	A. $\frac{9}{25}$	A. 2.67	
UV	B. $\frac{25}{99}$	B. 0.338	
	C. $\frac{99}{25}$	C 83	
, àn	$D \frac{25}{25}$	D 0 275	
	<i>D</i> . ₉	D. 0.375	
aus evenuui imher.	Part A Explain in your own words what it means for a number to be rational. Provide two examples of numbers that are rational and two examples of numbers that are irrational. Part B Would the quotient of 35 ÷ 11 be considered rational or irrational? Explain how you know. Part C What is the decimal equivalent to the quotient of 35 ÷ 11 from Part B? Show your work.		
ansion repea a rational nu			
ne decirrar expo ventually into a			

Part A

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for rational numbers show (

Understand

Know that numbers that are not rational are called irrational.

ly that every number has a decimal expansion; I

Orma

ly into a Part C

at	Which of the following is true about the decimal expansion of $\frac{1}{2}$?	Which of the following sets contains only irrational numbers?
bers show th ion which	A. ends in 625 B. 3 repeating C. 09 repeating D. 27 repeating	A. $\pi, \sqrt{2}, 4.238905 \dots$ B. $\frac{1}{7}, 3.14, 5$ C. $2\frac{1}{4}, \sqrt{5}, 7.717$ D. $0.\overline{1}, 0.\overline{09}, 0.1\overline{6}$
num pansi	Which of the following fractions does not end with a decimal expansion of zeros?	A flagpole measures $25\frac{1}{11}$ feet tall. Which repeating decimal represents this height?
for rational decimal ex	A. $\frac{1}{3}$ B. $\frac{1}{4}$ C. $\frac{1}{5}$ D. $\frac{1}{8}$	A. $25.08\overline{3}$ feet B. $25.\overline{09}$ feet C. $25.\overline{1}$ feet D. $25.1\overline{6}$ feet
pansion; l convert a	Points H, I, J, and K are plotted on the number line below. H I J K 4 I J K 0 1 2 3 4 5 6 7 8	Which number is irrational? A. $\frac{1}{8}$ B. 2.25
decimal ex tually, and mher,	Which point on the number line represents $\sqrt{7}$? A. <i>H</i> B. <i>I</i> C. <i>J</i> D. <i>K</i>	C. $\sqrt{9}$ D. 10π
er has a ats event ional mu	A middle school with 375 students has 125 in the class makes up 0. $\overline{1}$ of the school. Yolanda says th Fernando says that the eighth-grade class makes	eighth grade. Irene says that the eighth-grade e eighth-grade class makes up $0.\overline{3}$ of the school. up $0.\overline{6}$ of the school.
numbe n repea	Part A: Convert each student's decimal into a fraction.	
that every l expansion ntually int	Part B: Which student's decimal is correct? How do you know?	
ormally (decimal eats even	Part C: Which student's decimal represents the population of the rest of the middle school instead of the eighth-grade class? Explain your reasoning.	
inf the rea		

8.NS.1 Know that numbers that are not rational are called irrational. Understand