



Question 1:  Which of the following is irrational?  a777  b. $1.6\overline{0}$ c. $\sqrt{3}$ d. $\frac{5}{6}$ Question 2:  What is the value of $\frac{7}{8}$ as a decimal?  Question 3:  Write $\sqrt{7}$ as a decimal rounded to nearest thousandth.  Question 4:  Which of the following is a rational number?  a. $\sqrt{19}$ b. $\sqrt{69}$ c. $\sqrt{169}$ d. $\sqrt{8}$ Question 5:  Write $0.\overline{7}$ as the ratio of two integers.	Leve	4: Irrational Numbers and Integer Exponents Mid-Tes
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	d. √8	
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Question 6:
Write $3\frac{5}{9}$ as a decimal rounded to the nearest thousandth.
Question 7:
What is the greatest integer that is a solution to the following inequality?
$\sqrt{x}$ < 6
<b>Question 8:</b> Susan designs a rectangular tote bag to carry a tablet computer. Using the dimensions of the bag, she calculates the tote bag's diagonal to be $10 \times \sqrt{2}$ inches.
Of the measurements of computer diagonals listed below, which is the largest she can put in her bag?
a. 10 in
b. 15 in
c. 20 in
d. 25 in
Question 9:
Use the fractional approximation to write $\pi^3$ as a power of the ratio of two integers.
(Use the / key or the $rac{x}{\parallel}$ option to create a fraction. Use the $x^{\parallel}$ option to create an exponent.)
Question 10:
Estimate the value of $\sqrt{5}$ + $\sqrt{7}$ , rounded to the nearest thousandth.
Question 11:

Arrange the following numbers in order from least to greatest.

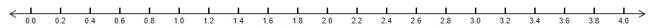
- $\sqrt{9}$
- $-3.1^{2}$





### **Question 12:**

Which point approximately represents  $\sqrt{13}$ ? Circle the number on the number line to show your answer.



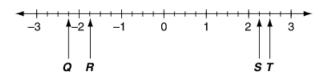
## Question 13:

Which of the following best describes an irrational number?

- a. a number that is a square root
- b. a number that is less than zero
- c. a number that cannot be approximated by a decimal
- d. a number that cannot be written as the ratio of two integers

# **Question 14:**

Look at the number line below.

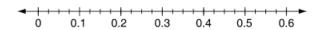


Which point best represents the location of –  $\sqrt{5}$  on the number line?

- a. point Q
- b. point R
- c. point S
- d. point T

### **Question 15:**

Look at the number line below.



Which number is located between 0.3 and 0.4 on the number line?

- a.  $\sqrt{0.06}$
- b.  $\sqrt{0.12}$
- c.  $\sqrt{0.25}$
- d.  $\sqrt{0.35}$

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# **Question 16:**

Question Write the n	<b>17:</b> umber 0.777 as	the quotient	of two integers.
Question	18:		
Between v	what two consecu	tive integers	is the value of $\sqrt{22}$ ?

Write  $1.\overline{6}$  as the quotient of two integers or as a mixed number.