Name_____**Date**_____

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5. Select the box in each row to identify the number as rational or irrational.

	Rational	Irrational
$\frac{13}{90}$	O	O
$\sqrt{84}$	O	O
$\frac{4}{11}$	O	O
12π	O	O
$4.\overline{63}$	O	O

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10. Between which two consecutive rational numbers is each irrational number? Choose two consecutive rational numbers for each irrational number.

	1	2	3	4	5	6
π	O	O	O	O	O	O
$\sqrt{5}$	O	O	O	O	O	O
$\sqrt{17}$	O	O	O	O	O	O
$\sqrt{30}$	O	O	O	O	O	O

Student	Value
Anson	$\sqrt{7}$
Beth	$\sqrt{35}$
Claudia	$\sqrt{60}$
Daniel	$\sqrt{83}$

3. Which students value is between 6 and 8 on the number line?

4.

8. Match each irrational number with the two consecutive rational numbers between which it lies.

	$\sqrt{37}$	$\sqrt{55}$	π
3.14, 3.15	O	O	O
6.08, 6.09	O	O	O
$\frac{22}{3}, \frac{23}{3}$	O	O	O

$$\frac{\pi}{7}, \quad \frac{\sqrt{9}}{2}, \quad \frac{19}{13}, \quad \frac{9}{20}, \quad \sqrt{5}$$

5. Arrange the numbers in order from GREATEST TO LEAST.

6. Between what two numbers does the square root of 50 fall between?

7. Johanna calculated the length of a support wire to be √60 feet long.

Which is the *best approximation* for √60 feet?

  A. Between 7 and 8 feet
  B. 30 feet
  C. 1800 feet
  D. Between 59ft and 60ft

8.Maria claims she can throw a football 40π feet. Her friends try to guess the distance in feet and record their estimated ranges in the table.

Ricardo	Shakira	Jonathan	Lacy
123-124 feet	124-125 feet	125-126 feet	126-127 feet

Which friend is correct?

1. Which statement explains why $\sqrt{30}$ is considered an irrational number?

   A. When evaluated, $\sqrt{30}$ results in a repeating decimal, which is considered an irrational number.

   B. When evaluated, $\sqrt{30}$ results in a terminating decimal, which is considered an irrational number.

   C. When evaluated, $\sqrt{30}$ results in a nonterminating and nonrepeating decimal, which is considered an irrational number.

   D. When evaluated, $\sqrt{30}$ results in a whole number, which is considered an irrational number.