

8

Exam

Name: _____ Date: _____ Hour: _____

8th Grade Mathematics Number System

8.NS.1 Determine if the following numbers are rational or irrational:

1) $\sqrt{46}$	Rational	Irrational
2) 5.2121...	Rational	Irrational
3) π	Rational	Irrational
4) $\sqrt{9}$	Rational	Irrational
5) $\frac{1}{5}$	Rational	Irrational

8.NS.1 Classify the numbers in the table by checking all that apply:

	Integer	Rational	Whole	Natural	Real
$\sqrt{49}$					
$\sqrt{25}$					

8.NS.2 Fill in each blank with the correct inequality sign.

A. $\sqrt{27}$ _____ 3

B. -7.8 _____ $-\sqrt{50}$

C. $\frac{15}{5}$ _____ $\sqrt{9}$

8.NS.2 Approximate the $\sqrt{39}$ to the nearest tenth. Plot $\sqrt{39}$ on a number line.

REFLECTION

A. What do you feel like you understand the most about the number system?

B. What is one area you would like to understand better about the number system?

C. **CIRCLE** the effort (10: MAXIMUM EFFORT) you gave and put a **BOX** (10: YOU COULD TEACH THIS TO SOMEONE ELSE) around how you would rate your **UNDERSTANDING** of the content using the number line below.

2 QUESTIONS PER STANDARD



By: Math in the Midwest

Name: _____ Date: _____ Hour: _____

8th Grade Mathematics

Number System

8.NS.1

Determine if the following numbers are rational or irrational:

- | | | |
|------------------|----------|------------|
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| 2) 5.2121... | Rational | Irrational |
| 3) π | Rational | Irrational |
| 4) $\sqrt{9}$ | Rational | Irrational |
| 5) $\frac{1}{5}$ | Rational | Irrational |

8.NS.1

Classify the numbers in the table by checking all that apply:

	Natural	Whole	Integer	Rational	Irrational	Real
$\sqrt{64}$						
$\sqrt{20}$						

8.NS.2

Fill in each blank with the correct inequality sign.

A. $\sqrt{27}$ _____ 3

B. -7.8 _____ $-\sqrt{50}$

C. $\frac{15}{5}$ _____ $\sqrt{9}$

8.NS.2

Approximate the $\sqrt{39}$ to the nearest tenth.
Plot $\sqrt{39}$ on a number line.

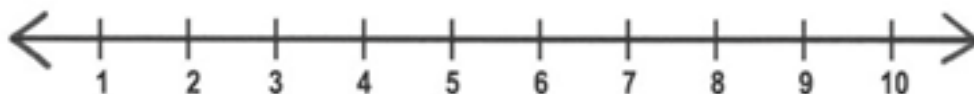


REFLECTION

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8th Grade Mathematics

Number System

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| 4) $\sqrt{9}$ | Rational | Irrational |
| 5) $\frac{1}{5}$ | Rational | Irrational |

8.NS.1

Classify the numbers in the table by checking all that apply:

	Natural	Whole	Integer	Rational	Irrational	Real
$\sqrt{64}$	x	x	x	x		x
$\sqrt{20}$					x	x

8.NS.2

Fill in each blank with the correct inequality sign.

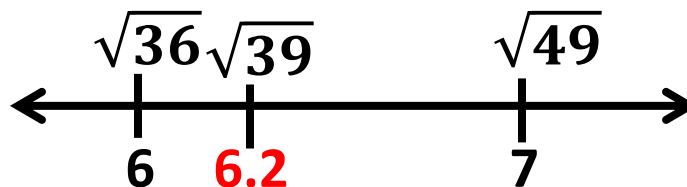
A. $\sqrt{27}$ **>** 3

B. -7.8 **<** $-\sqrt{50}$

C. $\frac{15}{5}$ **=** $\sqrt{9}$

8.NS.2

Approximate the $\sqrt{39}$ to the nearest tenth.
Plot $\sqrt{39}$ on a number line.

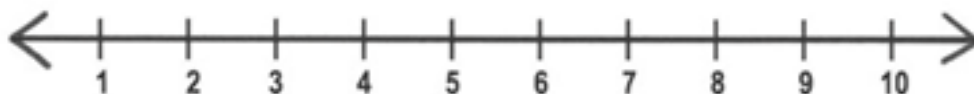


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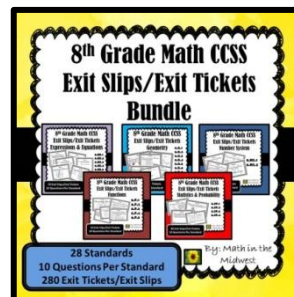
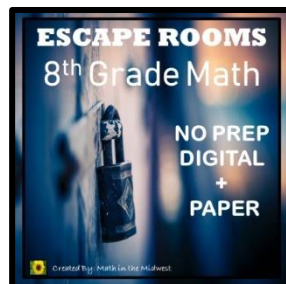
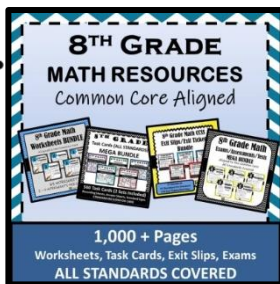
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