5-Day Worksheet Packet: Rational vs. Irrational Numbers

Standards:

- **Florida MA.8.NSO.1.1:** Compare and classify rational and irrational numbers.
- **NGSS MS-ETS1-2:** Apply mathematical concepts to analyze real-world problems in design.

Goal/Objective:

Students will explore, classify, and apply rational and irrational numbers through interactive activities and STEM applications, demonstrating understanding through discussion, handson work, and reflection.

Nam	e:	Date:	
Bellv	vork (Think-Pair-Shar)	
1.	Write a number you se	e often (price, measurement, etc.):	
		ional or irrational:	
	Explain why you think	90:	
	Ticket	30:	
Exit	Ticket	explain why each is rational:	
Exit	Ticket Write two numbers an		

Day 2 – Irrational Numbers & Decimals

Name	: Date:
Bellw	ork (Think-Pair-Share)
	List a number that cannot be written as a fraction: Explain why it is irrational:
Exit T	'icket
2.	Write one terminating decimal and label it rational:
•	3 – Square Roots & Estimation
Name	: Date:
Bellw	ork (Think-Pair-Share)
2.	Estimate √50 to one decimal place: Decide if it is rational or irrational: Explain your reasoning:
Exit T	icket
2.	Estimate √70 to one decimal place:
Day	4 – Comparing & Ordering Numbers
Name	: Date:
	ork (Think-Pair-Share)

1. Circle the bigger number: √12 or 3.5

	Expla					
Exit Ticket						
1.	or irra	r the following numbers frational (I): Set 1: √15, 3.6, 5 Order: Set 2: √28, 5.2, 5.0 Order: Set 3: √35, 6.0, 5.9 Order:	Labels:			
Name	e:		tion: Ferris Wheel Project Date:			
Name Bellw	e: vork (T Write	Think-Pair-Share) one circular object in rea	•			
Name Bellw 1. 2.	e: vork (T Write	Think-Pair-Share) one circular object in rea	_ Date:			
Name Bellw 1. 2. Exit	vork (T Write Why i	Think-Pair-Share) one circular object in rea is π used in this design? _	_ Date:			
Name Bellw 1. 2. Exit:	work (Town Write Why in Ficket Reflect wheel	Think-Pair-Share) one circular object in readis π used in this design? _ ction: How do irrational nais?	_ Date:			
Name Bellw 1. 2. Exit	work (Town Write Why in Ficket Reflect wheel	Think-Pair-Share) one circular object in readis π used in this design? _ ction: How do irrational nais?	_ Date:			