

Rational OR Irrational?!

Rational or Irrational?!?!?

Directions:

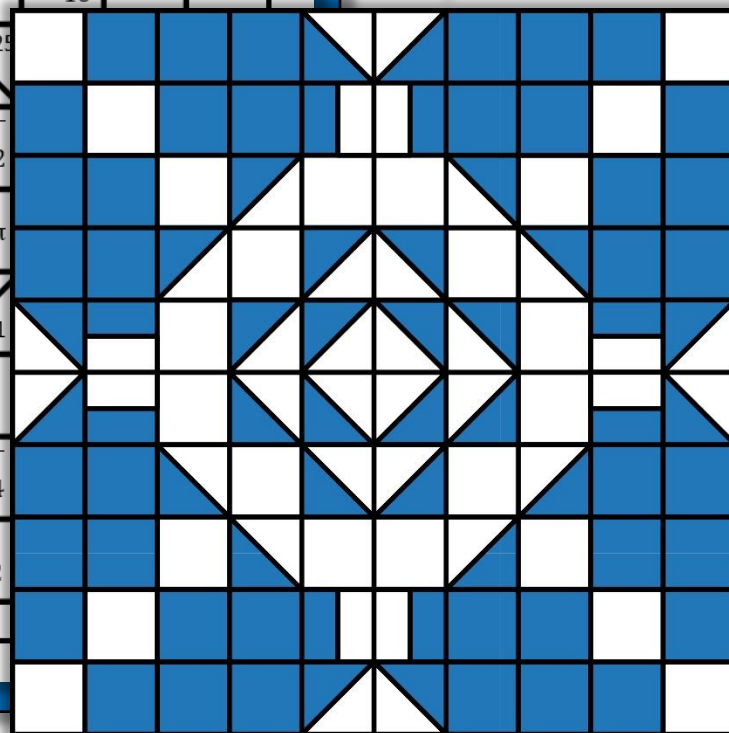
- Color all rational numbers blue
- Leave all irrational numbers white

Rationals include:

Irrationals include:

$\sqrt{7}$	$\sqrt{64}$	$1/2$	-7.165	$\sqrt{7}$ 2/7	2π -2.3	$\sqrt{100}$	0.5	$-1/8$	$\sqrt{15}$		
3.712	11.24...	$\sqrt{4}/2$	-5.5	0	$-\pi$	π	8	1.333	$3/11$	-10π	100.22
0.75	$\sqrt{49}$	-10 π	$\sqrt{4}$ 2 $\sqrt{3}$	$-\sqrt{5}$	$\sqrt{1.8}$	6π	$2/3$	1.274...	$-3/16$	$\sqrt{144}$	
$-1/4$	10.2	$-1/7$ $\sqrt{13}$	-2 π	$3\sqrt{1}$ $\sqrt{40}$	1 14 π	$\sqrt{17}$	0.25 $\pi/4$				
-2.1 -2 π	$\sqrt{25}$ $\sqrt{6}$	4.271...	-55 $\sqrt{14}$	1.75 -4π	-200 $\sqrt{11}$	$2\sqrt{9}$ $\sqrt{2}$	$\sqrt{1/2}$				
-7 π -9	$\sqrt{2}$ $\sqrt{36}$	$\sqrt{3/4}$	$3/2$	$2\sqrt{5}$ $-\sqrt{9}$	$\sqrt{3}$ $-\sqrt{1}$	5π 14.1	$\sqrt{\pi}$ $\sqrt{11}\pi$				
3.999	7.165	$-\pi$ 2/5	$\sqrt{15}$	π 0.3	$3\sqrt{8}$ -10	$\sqrt{1/6}$	-3 π -1				
11/2	$\sqrt{64}$	2.523...	$\sqrt{10}$ $\sqrt{1}$	3.128...	$\sqrt{2}/2$	$\sqrt{8}$ -4.5	-7 π				
1,000	$\sqrt{8}$	$-1/8$	$\sqrt{225}$	6	π	$-\pi$	-7	$\sqrt{169}$	$\sqrt{1/4}$		
-3 π	2.662	-0.25	$1/4$	-7.8 9 π	$2/3$ $\sqrt{\pi}$	12.91	$-1/2$				

Great Practice!



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THANK YOU!!!

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Math in Demand

Teacher Notes

- Students will need a blue coloring pencil or marker (if you do not have a blue coloring pencil, then you can use a different color or have students shade in the boxes with their pencil).
- This activity works great individually or in pairs.
- I like to go over the difference between rationals and irrationals with students before they start coloring.
- The answer key is provided on page 5.
- As always, I appreciate it when you leave feedback!
- If you have any questions or would like me to make a custom worksheet for you, please email me at mathindemand@hotmail.com. Thanks so much!

Rational or Irrational?!?!?

Directions:

- Color all rational numbers blue
- Leave all irrational numbers white

Rationals include:

Irrationals include:

$\sqrt{7}$	$\sqrt{64}$	$1/2$	-7.165	$\sqrt{7}$ $-2/\sqrt{7}$	2π $-2.\bar{3}$	$\sqrt{100}$	$0.\bar{5}$	$-1/8$	$\sqrt{15}$
3.712	7.284...	$\sqrt{4}/2$	-5.5	0	$-\pi$ π 8	1.333	$3/_{11}$	-10π	100.22
0.75	$\sqrt{49}$	-10π	$\sqrt{4}$ $2\sqrt{3}$	$-\sqrt{5}$	$\sqrt{1.8}$	$-2/3$ 6π	1.274...	$-3/_{16}$	$\sqrt{144}$
$-1/4$	10.2	$-1/7$ $\sqrt{13}$	-2π	$3\sqrt{1}$ $\sqrt{40}$	1 14π	$\sqrt{17}$	0.25 $\pi/4$	$5/_{16}$	-4.5
$-2.\bar{1}$ -2π	$\sqrt{25}$ $\sqrt{6}$	4.271...	-55 $\sqrt{14}$	1.75 -4π	-200 $\sqrt{11}$	$2\sqrt{9}$ $\sqrt{2}$	$\sqrt{1/2}$	$\sqrt{81}$ π	$2.\bar{7}$ 7π
-7π -9	$\sqrt{2}$ $\sqrt{36}$	$\sqrt{3/4}$	$2\sqrt{5}$ $3/2$	$\sqrt{3}$ $-\sqrt{9}$	5π $-\sqrt{1}$	$\sqrt{\pi}$ 14.1	$\sqrt{11}\pi$	4.517... $\sqrt{16}$	2π $\sqrt{81}$
3.999	7.165	$-\pi$ $2/5$	$\sqrt{15}$	π $0.\bar{3}$	$3\sqrt{8}$ -10	$\sqrt{1/6}$	-3π -1	$3/4$	5.96
$11/2$	$\sqrt{64}$	2.523...	$\sqrt{10}$ $\sqrt{1}$	3.128...	$\sqrt{2}/2$	$\sqrt{8}$ -4.5	-7π	0.44 ...	-3.999
1,000	$\sqrt{8}$	$-1/8$	$\sqrt{225}$	6	π $-\pi$ -7	$\sqrt{169}$	$\sqrt{1/4}$	$\sqrt{\pi}/3$	$0.32\bar{5}$
-3π	2.662	-0.25	$1/4$	-7.8 9π	$2/3$ $\sqrt{\pi}$	$12.\bar{91}$	$-1/2$	$\sqrt{121}$	$\sqrt{11}$

Rational or Irrational?!?!?

Answer Key

Directions:

- Color all rational numbers blue
- Leave all irrational numbers white

Rationals include:

- Fractions such as $\frac{a}{b}$ where a and b are integers
- Terminating decimals
- Repeating decimals
- Perfect squares

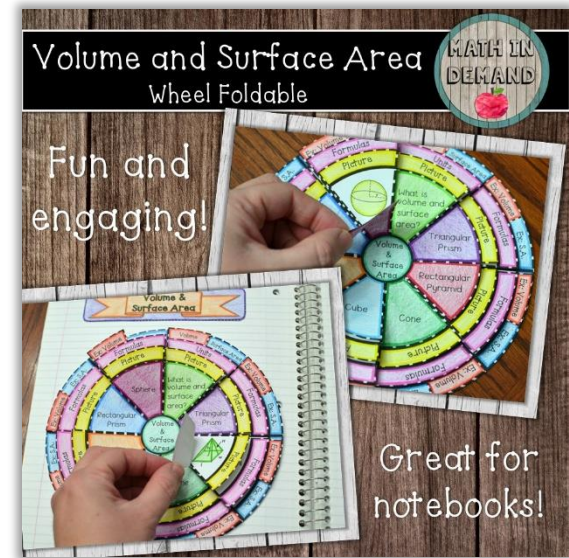
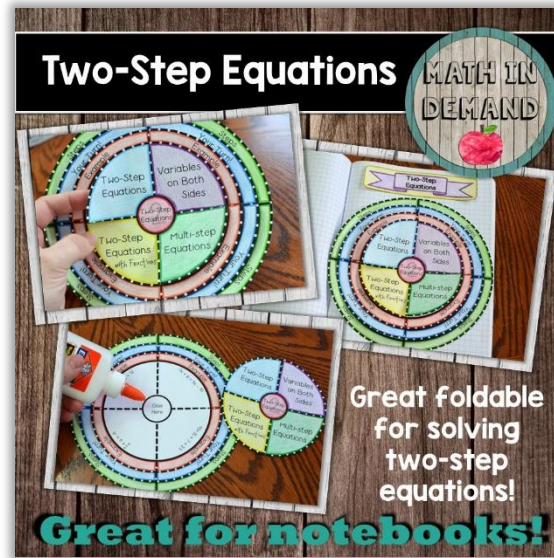
Irrationals include:

- Non-terminating decimals and non-repeating
- Non-perfect squares
- π

$\sqrt{7}$	$\sqrt{64}$	$1/2$	-7.165	$\sqrt{7}$ $-2/7$		2π $-2.\bar{3}$		$\sqrt{100}$	0.5	$-1/8$	$\sqrt{15}$				
3.712	7.284...	$\sqrt{4}/2$	-5.5	0	$-\pi$	π	8	1.333	$3/11$	-10π	100.22				
0.75	$\sqrt{49}$	-10π	$\sqrt{4}$ $2\sqrt{3}$		$-\sqrt{5}$ $\sqrt{1.8}$		$-2/3$ 6π		1.274...	$-3/16$	$\sqrt{144}$				
$-1/4$	10.2	$-1/7$ $\sqrt{13}$		-2π		$3\sqrt{1}$ $\sqrt{40}$		1	$\sqrt{17}$	0.25 $\pi/4$		$5/16$	-4.5		
$-2.\bar{1}$ -2π		$\sqrt{25}$ $\sqrt{6}$	4.271...	-55 $\sqrt{14}$		1.75 -4π		-200 $\sqrt{11}$		$2\sqrt{9}$ $\sqrt{2}$		$\sqrt{1/2}$	$\sqrt{81}$ π	$2.\bar{7}$ 7π	
-7π -9		$\sqrt{2}$ $\sqrt{36}$	$\sqrt{3/4}$	$2\sqrt{5}$ $3/2$		$\sqrt{3}$ $-\sqrt{9}$		5π $-\sqrt{1}$		$\sqrt{\pi}$ 14.1		$\sqrt{11}\pi$	4.517...	2π $\sqrt{81}$	
3.999	7.165	$-\pi$ $2/5$		$\sqrt{15}$		π $0.\bar{3}$		$3\sqrt{8}$ -10		$\sqrt{1/6}$		-3π -1		$3/4$	5.96
$11/2$	$\sqrt{64}$	2.523...	$\sqrt{10}$ $\sqrt{1}$		3.128...		$\sqrt{2}/2$		$\sqrt{8}$ -4.5		-7π		0.44 ...	-3.999	
1,000	$\sqrt{8}$	$-1/8$	$\sqrt{225}$	6	π	$-\pi$	-7	$\sqrt{169}$	$\sqrt{1/4}$	$\sqrt{\pi}/3$	0.325				
-3π	2.662	-0.25	$1/4$	-7.8 9π		$2/3$ $\sqrt{\pi}$		12.91	$-1/2$	$\sqrt{121}$	$\sqrt{11}$				

Recommendations

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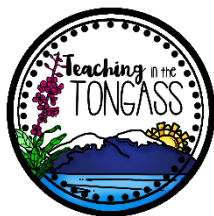
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