

## TYPES OF NUMBERS UNIT 4 PART 2 TARGETS

SKILL	EXAMPLE	I THINK I WILL GET A...	ACTUAL TEST SCORE												
**I can identify whether a number is rational or irrational.	<p><u>Rational:</u> can be written as a ratio of 2 integers</p> <table style="border: 1px solid black; width: 100%; text-align: center;"> <tr> <td style="width: 25%;"><math>78</math></td> <td style="width: 25%;"><math>\frac{1}{3}</math></td> <td style="width: 25%;"><math>\pi</math></td> <td style="width: 25%;"><math>\sqrt{11}</math></td> </tr> <tr> <td><math>-6.25</math></td> <td><math>\sqrt{100} = 10</math></td> <td><math>4.\bar{3}</math></td> <td></td> </tr> <tr> <td><u>R</u></td> <td><u>R</u></td> <td><u>I</u></td> <td><u>I</u></td> </tr> </table> <p><u>Irrational:</u> can NOT be written as a ratio of 2 integers</p>	$78$	$\frac{1}{3}$	$\pi$	$\sqrt{11}$	$-6.25$	$\sqrt{100} = 10$	$4.\bar{3}$		<u>R</u>	<u>R</u>	<u>I</u>	<u>I</u>		
$78$	$\frac{1}{3}$	$\pi$	$\sqrt{11}$												
$-6.25$	$\sqrt{100} = 10$	$4.\bar{3}$													
<u>R</u>	<u>R</u>	<u>I</u>	<u>I</u>												
I can convert fractions to decimals. <i>see next pg. for work</i>	Write each number below as a decimal (no calculator)														
	<table style="width: 100%; text-align: center;"> <tr> <td><math>8\frac{1}{5}</math></td> <td><math>-4\frac{2}{3}</math></td> <td><math>\frac{2}{7}</math></td> <td><math>\frac{25}{4}</math></td> <td><math>-\frac{6}{3}</math></td> </tr> <tr> <td><math>8.2</math></td> <td><math>-4.\bar{6}</math></td> <td><math>0.\overline{285714}</math></td> <td><math>6.25</math></td> <td><math>-2.0</math></td> </tr> </table>	$8\frac{1}{5}$	$-4\frac{2}{3}$	$\frac{2}{7}$	$\frac{25}{4}$	$-\frac{6}{3}$	$8.2$	$-4.\bar{6}$	$0.\overline{285714}$	$6.25$	$-2.0$				
$8\frac{1}{5}$	$-4\frac{2}{3}$	$\frac{2}{7}$	$\frac{25}{4}$	$-\frac{6}{3}$											
$8.2$	$-4.\bar{6}$	$0.\overline{285714}$	$6.25$	$-2.0$											
I can convert decimals to fractions <i>see next pg. for work</i>	Convert each of the following to a fraction.														
	<table style="width: 100%; text-align: center;"> <tr> <td><math>4.\bar{1}</math></td> <td><math>0.\overline{45}</math></td> <td><math>2.6</math></td> <td><math>3.\overline{271}</math></td> <td><math>0.39</math></td> </tr> <tr> <td><math>\frac{37}{9}</math></td> <td><math>\frac{5}{11}</math></td> <td><math>\frac{13}{5}</math></td> <td><math>\frac{3269}{999}</math></td> <td><math>\frac{39}{100}</math></td> </tr> </table>	$4.\bar{1}$	$0.\overline{45}$	$2.6$	$3.\overline{271}$	$0.39$	$\frac{37}{9}$	$\frac{5}{11}$	$\frac{13}{5}$	$\frac{3269}{999}$	$\frac{39}{100}$				
$4.\bar{1}$	$0.\overline{45}$	$2.6$	$3.\overline{271}$	$0.39$											
$\frac{37}{9}$	$\frac{5}{11}$	$\frac{13}{5}$	$\frac{3269}{999}$	$\frac{39}{100}$											
I can compare and order rational and irrational numbers on a number line.	Place the following numbers on the number line.														
	<p><math>\frac{3}{4} = 0.75</math>, <math>\sqrt{3}</math>, <math>\frac{8}{6} = 1.\bar{3}</math>, <math>-0.4</math></p> <p style="text-align: right;"><math>\sqrt{1}</math>, <math>\sqrt[2]{3}</math>, <math>\sqrt[4]{4}</math> 1.7</p>														
<b>REFLECTION:</b>															

5.0	Clearly and accurately shows understanding with no conceptual errors in reasoning or conclusions.
4.5	Clearly and accurately shows understanding with only calculation and/or copy errors.
4.0	Correct answer with no support Or One minor error in reasoning demonstrated.
3.5	Several minor errors in reasoning or conclusions
3.0	Shows some understanding but makes major errors in reasoning or conclusions.
2.5	Some mathematical effort is made but shows little understanding.
2.0	No Attempt or irrelevant answer

$8\frac{1}{5}$

$$5 \overline{) 11.0} \\ \underline{10} \\ 0$$

$8.2$

$4.\overline{1}$  Repeating  
10<sup>ths</sup>  
-1

$$4\frac{1}{9}$$

$$\frac{36}{9} + \frac{1}{9} = \frac{37}{9}$$

$-4\frac{2}{3}$

$$3 \overline{) 2.00} \\ \underline{18} \\ 20 \\ \underline{18} \\ 2$$

pattern

$-4.\overline{6}$

$0.\overline{45}$  Repeating  
100<sup>ths</sup>  
-1

$$\frac{45}{99} \div 9 \\ \frac{5}{11}$$

$$\frac{5}{11}$$

$\frac{2}{7}$

$$7 \overline{) 2.000000} \\ \underline{14} \\ 60 \\ \underline{56} \\ 40 \\ \underline{35} \\ 50 \\ \underline{49} \\ 10 \\ \underline{7} \\ 30 \\ \underline{28} \\ 2$$

$0.\overline{285714}$

$2.6$  Terminating  
tenths

$$2\frac{6}{10} \div 2 \\ 2\frac{3}{5}$$

$$2\frac{3}{5}$$

$$\frac{10}{5} + \frac{3}{5} = \frac{13}{5}$$

$3.\overline{271}$  Repeating  
1000<sup>ths</sup>  
-1

$$3\frac{271}{999}$$
 no common factor

$$\frac{2997}{999} + \frac{271}{999} = \frac{3268}{999}$$

$\frac{25}{4}$

$$4 \overline{) 25.00} \\ \underline{24} \\ 10 \\ \underline{8} \\ 20 \\ \underline{20} \\ 0$$

$6.25$

$0.39$  Terminating  
100<sup>ths</sup>

$$\frac{39}{100}$$

$-\frac{16}{3}$

$$3 \overline{) 16} \\ \underline{6} \\ 0$$

$-2.0$

↑  
so its a decimal