COMPARING AND ORDERING RATIONAL & IRRATIONAL NUMBERS COLORING WORKSHEET

Great Practice!

Lots of Fun!

Score (___/___)

Name: _____

Date: _____

Period: _____

Comparing and Ordering Rational and Irrational Numbers

Directions: Solve the following problems by comparing and or...
will have a given color. Find your answer in the circles and co...

1.) Compare the following numbers using <, >, or =

4.5 ◯ $\frac{9}{2}$

Orange

2.) Compare the following numbers using <, >, or =

3.14 ◯ π

Yellow

3.) Compare following num using <, >,

$8.\overline{3}$ ◯

Blue

5.) Compare the following numbers using =, ≤, or ≥

$\sqrt{8}$ ◯ 2.8

Purple

6.) Determine which number is greatest:

$\frac{25}{2}, \sqrt{144}, 12.\overline{5}, 12.1$

Orange

7.) Determine number is

$\frac{25}{2}, \sqrt{144}, 12$

Red

What is the Mystery Picture???

Directions:

After solving the 16 problems on comparing and ordering numbers, you will find your answer to the right. Color each answer according to the given color on the problem (If you do not see your answer, then you need to check your answer).

≤	≤	≤	≤	0.05 / =	=	=	=	=	=
≤	≤	≤ / -8.09	-8.09	$\sqrt{144}$	$\sqrt{144}$ / =	=	=	=	=
12.1	12.1	-8.09	-8.09	$\sqrt{144}$	$\sqrt{144}$	$-\pi$	$-\pi$	$-\pi$	$-\pi$
12.1	12.1	-8.09 / 12.1	-8.09	$\sqrt{144}$	$\sqrt{144}$ / $-\pi$	$-\pi$	$-\pi$	$-\pi$	$-\pi$
<	<	<	<	0.5	0.5	0.5	0.5	$\frac{25}{2}$	$\frac{25}{2}$
<	<	<	<	0.5	0.5	0.5	0.5	$\frac{25}{2}$	$\frac{25}{2}$
0.005	0.005	≥	≥	≥	≥	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
0.005	0.005	≥	≥	≥	≥	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
0.005	$-\frac{17}{2}$	$-\frac{17}{2}$	$-\frac{17}{2}$	$-\frac{17}{2}$	>	>	>	>	$12.\overline{5}$
0.005	$-\frac{17}{2}$	$-\frac{17}{2}$	$-\frac{17}{2}$	$-\frac{17}{2}$	>	>	>	>	$12.\overline{5}$

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Teacher Notes

- Students will need 6 colors to complete the mystery picture: orange, blue, purple, yellow, red, and green.

- I like to print pages 4 and 5 back to back.

- This activity works great individually or in pairs.

- I tell my students that they need to write a good reflection. They do not receive credit if they write "I learned how to do math". They need to explain the concept that they learned in 2-3 sentences.

- If students do not see their answer in the coloring section then they need to check their answers.

- If you have any questions or concerns, please email me at mathindemand@hotmail.com.

Score (___/___)

Name: _____

Date: _____

Period: _____

Comparing and Ordering
Rational and Irrational Numbers

<u>Directions</u>: Solve the following problems by comparing and ordering numbers. Each problem will have a given color. Find your answer in the circles and color according to the given color.

1.) Compare the following numbers using <, >, or = 4.5 ◯ $\frac{9}{2}$ Orange ⟩	2.) Compare the following numbers using <, >, or = 3.14 ◯ π Yellow ⟩	3.) Compare the following numbers using <, >, or = 8.$\bar{3}$ ◯ 8.33 Blue ⟩	4.) Compare the following numbers using =, ≤, or ≥ 12.590 ◯ 12.6 Orange ⟩
5.) Compare the following numbers using =, ≤, or ≥ $\sqrt{8}$ ◯ 2.8 Purple ⟩	6.) Determine which number is greatest: $\frac{25}{2}$, $\sqrt{144}$, 12.$\bar{5}$, 12.1 Orange ⟩	7.) Determine which number is least: $\frac{25}{2}$, $\sqrt{144}$, 12.1, 12.$\bar{5}$ Red ⟩	8.) Determine which number is least: 0.05, 0.5, 0.005, $\frac{1}{4}$ Orange ⟩

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9.) Determine which number is greatest:

0.05, 0.5, 0.005, $\frac{1}{4}$

| Yellow |

10.) Determine which number is greatest:

-8.4, -8.09, $-\frac{17}{2}$, $-\pi$

| Orange |

11.) Determine which number is least:

-8.4, -8.09, $-\frac{17}{2}$, $-\pi$

| Blue |

12.) Order the following (least to greatest):

$\frac{25}{2}$, $\sqrt{144}$, $12.\overline{5}$, 12.1

____, ____, ____, ____

| Orange |

13.) Order the following (greatest to least):

0.05, 0.5, 0.005, $\frac{1}{4}$

____, ____, ____, ____

| Purple |

14.) Order the following (least to greatest):

-8.4, -8.09, $-\frac{17}{2}$, $-\pi$

____, ____, ____, ____

| Red |

15.) Order the following (greatest to least):

$\frac{25}{2}$, $\sqrt{144}$, $12.\overline{5}$, 12.1

____, ____, ____, ____

| Orange |

16.) Order the following (least to greatest):

0.05, 0.5, 0.005, $\frac{1}{4}$

____, ____, ____, ____

| Green |

Reflection: From this activity, I learned...

What is the Mystery Picture???

Directions:

After solving the 16 problems on comparing and ordering numbers, you will find your answer to the right. Color each answer according to the given color on the problem (If you do not see your answer, then you need to check your answer).

$\leq$	$\leq$	$\leq$	$\leq$	0.05 $=$	$=$	$=$	$=$	$=$	$=$
$\leq$	$\leq$	$\leq$ / -8.09	-8.09	$\sqrt{144}$	$\sqrt{144}$ / $=$	$=$	$=$	$=$	$=$
12.1	12.1	-8.09	-8.09	$\sqrt{144}$	$\sqrt{144}$	$-\pi$	$-\pi$	$-\pi$	$-\pi$
12.1	12.1	-8.09 / 12.1	-8.09	$\sqrt{144}$	$\sqrt{144}$ / $-\pi$	$-\pi$	$-\pi$	$-\pi$	$-\pi$
$<$	$<$	$<$	$<$	0.5	0.5	0.5	0.5	$\frac{25}{2}$	$\frac{25}{2}$
$<$	$<$	$<$	$<$	0.5	0.5	0.5	0.5	$\frac{25}{2}$	$\frac{25}{2}$
0.005	0.005	$\geq$	$\geq$	$\geq$	$\geq$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
0.005	0.005	$\geq$	$\geq$	$\geq$	$\geq$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
0.005	$-\frac{17}{2}$	$-\frac{17}{2}$	$-\frac{17}{2}$	$-\frac{17}{2}$	$>$	$>$	$>$	$>$	$12.\bar{5}$
0.005	$-\frac{17}{2}$	$-\frac{17}{2}$	$-\frac{17}{2}$	$-\frac{17}{2}$	$>$	$>$	$>$	$>$	$12.\bar{5}$

Score (___/___)

Comparing and Ordering
Rational and Irrational Numbers

Answer Key

<u>Directions</u>: Solve the following problems by comparing and ordering numbers. Each problem will have a given color. Find your answer in the circles and color according to the given color.

1.) Compare the following numbers using <, >, or =

4.5 $\left(=\right)$ $\frac{9}{2}$

Orange $>$ =

2.) Compare the following numbers using <, >, or =

3.14 $\left(<\right)$ π

Yellow $>$ <

3.) Compare the following numbers using <, >, or =

$8.\bar{3}$ $\left(>\right)$ 8.33

Blue $>$ >

4.) Compare the following numbers using =, ≤, or ≥

12.590 $\left(\leq\right)$ 12.6

Orange $>$ ≤

5.) Compare the following numbers using =, ≤, or ≥

$\sqrt{8}$ $\left(\geq\right)$ 2.8

Purple $>$ ≥

6.) Determine which number is greatest:

$\frac{25}{2}$, $\sqrt{144}$, $12.\bar{5}$, 12.1

Orange $>$ $12.\bar{5}$

7.) Determine which number is least:

$\frac{25}{2}$, $\sqrt{144}$, 12.1, $12.\bar{5}$

Red $>$ $\sqrt{144}$

8.) Determine which number is least:

0.05, 0.5, 0.005, $\frac{1}{4}$

Orange $>$ 0.005

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9.) Determine which number is greatest:

$0.05, 0.5, 0.005, \frac{1}{4}$

Yellow > **0.5**

10.) Determine which number is greatest:

$-8.4, -8.09, -\frac{17}{2}, -\pi$

Orange > **$-\pi$**

11.) Determine which number is least:

$-8.4, -8.09, -\frac{17}{2}, -\pi$

Blue > **$-17/2$**

12.) Order the following (least to greatest):

$\frac{25}{2}, \sqrt{144}, 12.\bar{5}, 12.1$

$\underline{\sqrt{144}}, \underline{12.1}, \underline{25/2}, \underline{12.\bar{5}}$

Orange > **$25/2$**

13.) Order the following (greatest to least):

$0.05, 0.5, 0.005, \frac{1}{4}$

$\underline{0.5}, \underline{1/4}, \underline{0.05}, \underline{0.005}$

Purple > **$1/4$**

14.) Order the following (least to greatest):

$-8.4, -8.09, -\frac{17}{2}, -\pi$

$\underline{-17/2}, \underline{-8.4}, \underline{-8.09}, \underline{-\pi}$

Red > **-8.09**

15.) Order the following (greatest to least):

$\frac{25}{2}, \sqrt{144}, 12.\bar{5}, 12.1$

$\underline{12.\bar{5}}, \underline{25/2}, \underline{12.1}, \underline{\sqrt{144}}$

Orange > **12.1**

16.) Order the following (least to greatest):

$0.05, 0.5, 0.005, \frac{1}{4}$

$\underline{0.005}, \underline{0.05}, \underline{1/4}, \underline{0.5}$

Green > **0.05**

Reflection: From this activity, I learned...
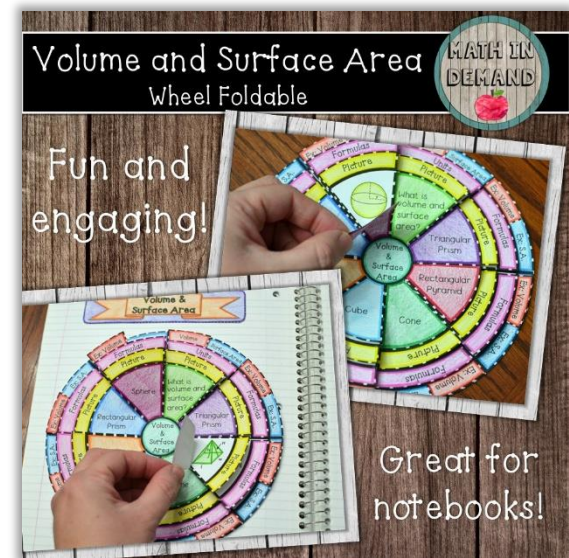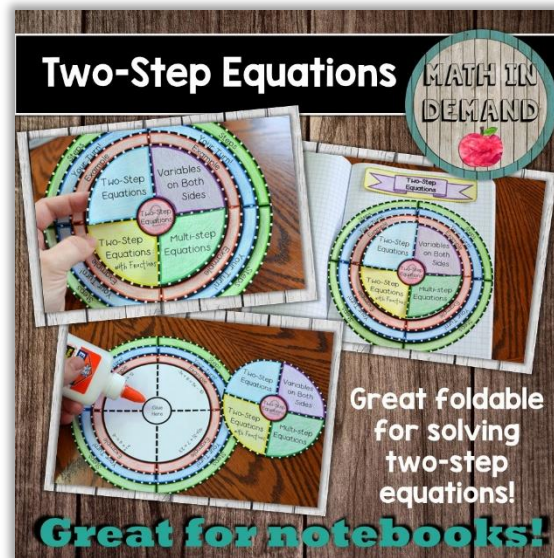
Answers will vary

What is the Mystery Picture???

Directions:

After solving the 16 problems on comparing and ordering numbers, you will find your answer to the right. Color each answer according to the given color on the problem (If you do not see your answer, then you need to check your answer).

≤	≤	≤	≤	0.05 / =	=	=	=	=	=
≤	≤	≤ / -8.09	-8.09	$\sqrt{144}$	$\sqrt{144}$ / =	=	=	=	=
12.1	12.1	-8.09	-8.09	$\sqrt{144}$	$\sqrt{144}$	$-\pi$	$-\pi$	$-\pi$	$-\pi$
12.1	12.1	-8.09 / 12.1	-8.09	$\sqrt{144}$	$\sqrt{144}$ / $-\pi$	$-\pi$	$-\pi$	$-\pi$	$-\pi$
<	<	<	<	0.5	0.5	0.5	0.5	$\frac{25}{2}$	$\frac{25}{2}$
<	<	<	<	0.5	0.5	0.5	0.5	$\frac{25}{2}$	$\frac{25}{2}$
0.005	0.005	≥	≥	≥	≥	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
0.005	0.005	≥	≥	≥	≥	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
0.005	$-\frac{17}{2}$	$-\frac{17}{2}$	$-\frac{17}{2}$	$-\frac{17}{2}$	>	>	>	>	$12.\bar{5}$
0.005	$-\frac{17}{2}$	$-\frac{17}{2}$	$-\frac{17}{2}$	$-\frac{17}{2}$	>	>	>	>	$12.\bar{5}$

Recommendations

Love my coloring activity and want to check out other resources?

Slope Puzzle Activity — MATH IN DEMAND — Cut & Paste Activity

Two-Step Equations — MATH IN DEMAND — Great foldable for solving two-step equations! Great for notebooks!

Volume and Surface Area Wheel Foldable — MATH IN DEMAND — Fun and engaging! Great for notebooks!

I offer lots of hands on activities! Don't forget that you can save money by buying bundles!

Click the pictures above to see more information!

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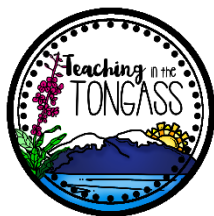
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