GRADE 8 MATH · CLASSWORK

Compare and Order Rational and Irrational Numbers

SCORE / 25

01 Part A · Practice

Write every number as a decimal approximation, then compare place by place or place them on a number line.

EXAMPLE

Order $\sqrt{5}$, $2.\overline{2}$, $\frac{9}{4}$, 2.2 from least to greatest.

1. Approximate: $\sqrt{5} \approx 2.236$, $2.\overline{2} = 2.222\ldots$, $\frac{9}{4} = 2.25$.
2. Compare: $2.2 < 2.222\ldots < 2.236 < 2.25$.
3. Order: 2.2, $2.\overline{2}$, $\sqrt{5}$, $\frac{9}{4}$.

1 ●○○ Which number is the least? $\sqrt{11}$, 3.05, 2.73, $0.\overline{6}$

2 ●○○ Order from least to greatest: $\sqrt{3}$, $\frac{\pi}{2}$, $\sqrt{5}$, $\frac{3}{2}$, $\sqrt{2}$

3 ●○○ Order from greatest to least: $\sqrt{17}$, 4.94, $3.1\overline{6}$, $\sqrt{14}$, 4.05

4 ●○○ Compare. Write <, >, or =. $\sqrt{28}$ ◯ $5.\overline{8}$

5 ●○○ Compare. Write <, >, or =. $\frac{\pi}{2}$ ◯ 1

6 ●○○ Order from greatest to least: π, $4.\overline{6}$, $4.\overline{90}$, $\frac{25}{6}$, $\frac{7}{2}$

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Preview - the full worksheet and its answer key are at primeworksheet.com