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Compare & Order Numbers

1. Identify the missing symbols: $^{1}/_{5}$ **?** $^{2}/_{5}$ **?** $^{4}/_{10}$

- **A.** < and >
- **B.** < and =
- **C.** < and <
- **D.** > and =

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2. Identify the missing symbol: $^{2}/_{15}$ **?** $^{1}/_{5}$

- **A.** >
- **B.** =
- **C.** <

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3. Which list of numbers is in order from least to greatest?

- **A.** -4,632 , -4,630 , -4,611 , -4,591
- **B.** -4,632 , -4,611 , -4,630 , -4,591
- **C.** -4,591 , -4,611 , -4,630 , -4,632
- **D.** -4,632 , -4,630 , -4,591 , -4,611

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4. Which list of numbers is in order from least to greatest?

- **A.** 33.447 , 33.382 , 33.432 , 26.482
- **B.** 26.482 , 33.382 , 33.432 , 33.447
- **C.** 26.482 , 33.382 , 33.447 , 33.432
- **D.** 26.482 , 33.432 , 33.382 , 33.447

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5. Which list of numbers is in order from greatest to least?

- **A.** $6\ ^{8}/_{13}$, $6\ ^{7}/_{13}$, $6\ ^{5}/_{13}$
- **B.** $6\ ^{8}/_{13}$, $6\ ^{5}/_{13}$, $6\ ^{7}/_{13}$
- **C.** $6\ ^{5}/_{13}$, $6\ ^{8}/_{13}$, $6\ ^{7}/_{13}$

○ **D.** $6\ ^{7}/_{13}$, $6\ ^{8}/_{13}$, $6\ ^{5}/_{13}$

Answers

1. B
2. C
3. A
4. B
5. A

Explanations

1. Convert $^{1}/_{5}$ and $^{2}/_{5}$ so that they have the same denominator as $^{4}/_{10}$.

   $^{1}/_{5} = {}^{2}/_{10}$

   $^{2}/_{5} = {}^{4}/_{10}$

   Now compare the numerators of the three fractions: 2, 4, 4.

   Because 2 is less than 4: $^{2}/_{10} < {}^{4}/_{10}$.

   Because 4 equals 4: $^{4}/_{10} = {}^{4}/_{10}$.

   Therefore,

   $$^{2}/_{10} < {}^{4}/_{10} = {}^{4}/_{10}$$

   $$^{1}/_{5} < {}^{2}/_{5} = {}^{4}/_{10}$$

2. Convert $^{1}/_{5}$ so that is has the same denominator as $^{2}/_{15}$.

   $^{1}/_{5} = {}^{3}/_{15}$

   Compare the numerators in $^{3}/_{15}$ and $^{2}/_{15}$. Because 2 is less than 3:

   $$^{2}/_{15} < {}^{3}/_{15}$$

   $$^{2}/_{15} < {}^{1}/_{5}$$

3. Positive numbers will always be greater than negative numbers. When ordering negatives, the number that is farthest to the left of zero is the smallest. So -1,000 is less than -100.

   To order negative numbers, line up the numbers being compared. Then compare the place value for each digit starting from the left. Find the first difference, and the number with the largest digit is the smallest number. In this problem, compare the digits in the thousands place, then the hundreds place, then the tens place, and then the ones place.

   -4,632
   -4,630
   -4,611
   -4,591

   So, from least to greatest, the order is: **-4,632, -4,630, -4,611, -4,591**.

4. To order decimal numbers, line up the numbers being compared. Then compare the place value for each digit starting from the left. Find the first difference, and the number with the largest digit is the largest number. In this problem, compare the digits in the tens place, then the ones place, and then the tenths place.

   26.482
   33.382
   33.432
   33.447

   So, from least to greatest, the order is: **26.482, 33.382, 33.432, 33.447**.

5. All three stems are the same (6) in this problem. So, look at the fraction. Because all the denominators are equal (13), put the numerators in order from greatest to least.

   8 , 7 , 5

   Therefore,

   $6\,^{8}/_{13}$, $6\,^{7}/_{13}$, $6\,^{5}/_{13}$