1. Use > or < to write a true sentence:
    11 _____ 71

2. Compare: 105 ◯ 406

3. Which of the following is a true statement?

    [A] $618 > 189$ [B] $981 < 967$

    [C] $139 > 603$ [D] $808 < 486$

4. If you put the numbers 246, 248, 256, and 253 in order from smallest to largest, which number would be fourth?

    [A] 253   [B] 256   [C] 248   [D] 246

5. Order the numbers 519, 951, and 159 from least to greatest.

    [A] 519, 951, 159   [B] 159, 519, 951

    [C] 951, 159, 519   [D] 519, 159, 159

6. Order the numbers 169, 961, and 619 from least to greatest.

7. Compare: 13,363 ◯ 46,943

8. Compare: -7 ◯ -1

9. Compare: -5 ◯ -6

    [A] not given   [B] >   [C] =   [D] <

10. Name a point between -3 and -4 on a number line.

11. (a) Arrange these numbers in order from greatest to least:

    $$0, 3, -3, \frac{1}{3}$$

    (b) List the numbers in part (a) that are not integers.

12. If $\frac{23}{8}, \frac{11}{2}, \frac{9}{6}$, and $\frac{15}{7}$ are placed in order from least to greatest, which would be first?

    [A] $\frac{9}{6}$ [B] $\frac{15}{7}$ [C] $\frac{23}{8}$ [D] $\frac{11}{2}$

13. Insert =, <, or > to make a true statement:

    $-\frac{1}{2}$ [?] $-\frac{2}{3}$.

14. Which of the following is *not* a true statement?

    [A] $32.18 = 32.1800000$

    [B] $24.30009 < 24.31$

    [C] $32.7400 > 32.74$ [D] $29.337 > 29.327$

15. $\sqrt{355}$ and 6π
    Which number is *smaller*? Show how you arrived at your answer.

16. Use the three digits 2, 8, and 6 once each to make an even number less than 600.

17. Write twenty-eight is less than forty with numbers and a comparison symbol.

18. Compare the quantities in Column A and Column B.
     Column A   Column B
     ab if $0 < a < 1$ and $b < 0$ *ab* if $-1 < a < 0$ and $b > 0$

     [A] The quantity in Column A is greater.   [B] The quantity in Column B is greater.

     [C] The quantities are equal.

     [D] The relationship cannot be determined from the information given.

19. Use digits and symbols to write "Negative two is greater than negative four."

20. Compare: $21 + 7 \bigcirc 20 + 8$

Compare:

21. $24 \times 6 \bigcirc 22 - 10$

22. $6 \times 8 \times 4 + 2 - 3 \bigcirc (12 - 6) \times (4 + 2 - 3)$ [A] none of these   [B] =   [C] >   [D] <

23. Write <, >, or = between the two expressions to make a true statement. $(7 \times 3) \div (9 + 3 - 9)$ _____
     $7 \times 3 \div 9 + 3 - 9$

     [A] >   [B] =   [C] <

24. Use digits and symbols to compare 2 plus 1 to 2 times 1.

25. Use digits and symbols to write "The product of two and one is less than the sum of two and one."

[1] $11 < 71$

[2] $105 < 406$

[3] A

[4] B

[5] B

[6] 169, 619, 961

[7] $13{,}363 < 46{,}943$

[8] <

[9] B

[10] Answers may vary. Sample: -3.5

[11] (a) 3, $\dfrac{1}{3}$, 0, –3   (b) $\dfrac{1}{3}$

[12] A

[13] $-\dfrac{1}{2} > -\dfrac{2}{3}$

[14] C

[15] $\sqrt{355} \approx 18.84$ and $6\pi \approx 18.85$ so $\sqrt{355}$ is smaller.

[16] 268 or 286

[17] $28 < 40$

[18] D

[19] $-2 > -4$

[20] $21 + 7 = 20 + 8$

[21] >

[22] C

[23] A

[24] $2 + 1 > 2 \times 1$

[25] $2 \times 1 < 2 + 1$