Common Core Math 7 EOG Questions- The Number System

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| 1. Which situation below describes the number line shown?1. The temperature outside rose 5 degrees and dropped 2 degrees
2. Harper earned $7 helping his dad, then spent $5 on lunch.
3. Lara spent $7 on a new shirt, then spent $5 dollars on a new hat.
4. Katie walked 7 blocks to her friend’s house, then walked 2 blocks back.
 | 2. Which statement is true of points X and Y on the number line?1. X + Y < 0
2. XY > -3
3. X – Y > 0
4. Y ÷ X > 0
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| 3. Which math sentence could be used to show the combined value of the tokens?1. 11 + (-10) = 1
2. 11 + (-10) = 21
3. 11 – (-10) = 1
4. 11 – (-10) = 21
 | 4. Which math sentence could be used to show the combined value of the tokens?1. -6 + 9 = -3
2. -6 + 9 = 3
3. -6 – 9 = -15
4. -6 – 9 = 15
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| 5. The daily high temperatures in Anchorage, Alaska last week are listed in the chart below:

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| Day | Temperature |
| Monday | 15℉ |
| Tuesday | 8℉ |
| Wednesday | -6℉ |
| Thursday | -8℉ |
| Friday | -19℉ |

What was the average daily low temperature in Anchorage for those days? 1. -10℉
2. -5℉
3. -2℉
4. 2℉
 | 6. Mikayla and her two friends made a pizza and cut it into 8 equal-sized slices. If Mikayla and her friends ate 5 slices of pizza, what decimal represents the portion of pizza that remains? 1. .5
2. .375
3. .35
4. .625
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| 7. Harold made a pie for after dinner. If he ate ½ of the pie and his wife Sara ate ¼ of the pie, which picture could represent the amount of pie left? The shaded region of each circle shows how much pie was left over. 1.

 | 8. Harold made a pie for after dinner. If he ate ¼ of the pie and his wife Sara ate $\frac{1}{3}$ of what is left, which picture could represent the amount of pie left? The shaded region of each circle shows how much pie was left over.   |
| 9. Which mixed number is equivalent to 5.2921. $\frac{73}{250}$
2. $5\frac{2}{9}$
3. $5\frac{73}{250}$
4. $5\frac{292}{100}$
 | 10. Which expression has the greatest value?1. -9 – 8
2. -9 + 8
3. 8 – 9
4. 8 – (-9)
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| 11. Navya has 10½ feet of craft wire that she uses to make earrings. If each pair of earring requires ¾ foot of wire, how many pairs of earrings is Navya able to make?1. 1
2. 9
3. 10
4. 14
 | 12. While visiting Chicago, Jenny used a taxi for transportation. The taxis charged her $.95 per city block. If the taxis charged her a total of $25.65 for transportation, how many total city blocks did she travel? 1. 24.7 blocks
2. 25 blocks
3. 26 blocks
4. 27 blocks
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| 13. Sasha agreed to make 4½ dozen cupcakes for her friend’s big birthday bash. So far, she has baked and decorated $\frac{1}{3}$ of the cupcakes. If there are 12 cupcakes in a dozen, how many cupcakes are ready for the party?1. 1.5 cupcakes
2. 4 cupcakes
3. 18 cupcakes
4. 36 cupcakes
 | 14. The distance from Jessie’s house to the neighborhood dog park is 1¼ miles. If Jessie and her dog ran $\frac{2}{5}$ of the way there, how far did they run? 1. $\frac{2}{5}$ mile
2. ½ mile
3. $\frac{17}{20}$ mile
4. 1 mile
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|  15. Which expression has a value of -19?1. (8 – 9) – 18
2. 8 – (-9)
3. -9 – 8
4. -1 – (-17)
 | 16. Laura’s gym membership fee of $45 is automatically deducted from her bank account each month. If she must also pay a one-time yearly maintenance fee of $75, which integer would represent the total deductions for one year of gym membership?1. - $120
2. - $465
3. - $540
4. - $615
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| 17. Tanya entered a hotel elevator on the 7th floor. She rode down 2 floors, up 5 floors, down 6 floors, up 7 floors and down 2 floors. On what floor did Tanya get off the elevator? 1. 6th floor
2. 7th floor
3. 9th floor
4. 11th floor
 | 18. Find the product of the following expression: 1. 624
2. 620
3. 62.4
4. 64
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| 19. Which is equivalent to the expression(45 – 67) – 981. -120
2. -76
3. 14
4. 210
 | 20. At the beginning of the week, the temperature was 14℉. During the week, it decreased by 25℉. What was the temperate by the end of the week? 1. 39℉
2. 11℉
3. -11℉
4. -39℉
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