

Student name: _____ Room number: _____

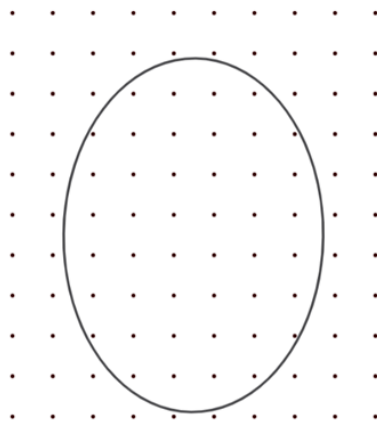
Team ID: _____

#	Answer	Points (0/1)
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Graders:	Total: 1
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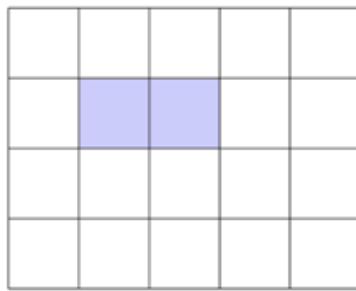
Problems

1. What is $1 - 1 + 2 - 2 + 3 - 3 + 4 - 4 + 5 - 5$?
2. Guilherme has 19 erasers. If he gives 5 erasers to Grace and 5 erasers to Gavin, how many erasers does he have left?
3. How many whole numbers between 100 and 600 end in 12? For example, 212 is one such number.
4. Adi's guitar string is 40 centimeters long. If his violin string is $\frac{3}{4}$ the length of his guitar string, what is the length of his violin string?
5. Rainbow highlighters come in packs of 5. If Angela wants to buy at least 2026 highlighters, what is the least number of packs she can buy?
6. What is the remainder when 706 is divided by 101?
7. Every Saturday in Lincoln City, there is a 20% chance that it will rain. If today is Saturday, what is the probability that it will not rain in Lincoln City?
8. How many multiples of 3 are between 1 and 34?
9. How many black dots in the grid are inside the oval?

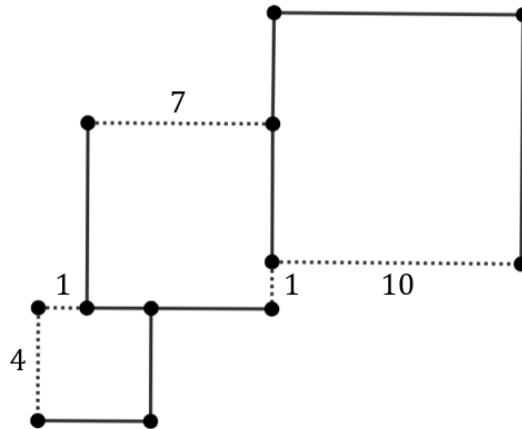


10. Elina the duck takes 8 minutes to run up a hill. If Elina runs down the hill at 2 times the speed, how many minutes does it take Elina to run up and down the hill?

11. Daniel went to a friend's house where he took $\frac{1}{4}$ of a cheese pizza, $\frac{1}{2}$ of a pepperoni pizza, and $\frac{1}{8}$ of a veggie pizza. If each pizza had 8 slices, how many slices did Daniel take in total?
12. In Khoi's piggy bank, there are 20 quarters and 20 nickels. How many dollars are in Khoi's piggy bank?
13. Brian has an IQ of 196. When Brian does math problems, his IQ increases by 5 points every hour. When he watches TV, his IQ decreases by 4 points every hour. After Brian does math problems for 2 hours and then watches TV for half an hour, what is his IQ?
14. Arman draws a 4 by 5 grid on the whiteboard in math class. How many pairs of adjacent cells are there in the grid, like the pair of highlighted cells in the diagram? (Adjacent cells share an edge).



15. Angela and Frida each have 2 identical pies. Frida cut her pie into 5 equal pieces and ate two slices. Angela cut hers into 7 equal pieces and ate 3 of them. Who has more pie left over?
16. What is the sum of the largest and smallest 2-digit prime numbers?
17. If Andrew sold T-shirts for \$5.50 each, 138 people would buy them. If he sold them for \$6.90 each, 110 people would buy them. Would selling T-shirts for \$5.50 make him more, less, or the same amount of money as selling T-shirts for \$6.90?
18. Three squares of different sizes are connected as shown. What is the perimeter of the resulting figure?



19. A teacher is splitting her class of 38 students in groups of size 8 by counting them off 1 to 8. While counting, how many times does she say “6 7?”
20. In a chess tournament with 5 players, each player plays every other player exactly once. How many chess matches are played in total?
21. Brian left his computer at Daniel’s house. If Brian bikes towards Daniel’s house at 10 mph and Daniel runs towards Brian at 6 mph, and they meet in 30 minutes, how many miles apart do they live?
22. The sum of the ages of several friends is 53. In 3 years, the sum of their ages is 68. How many friends are there?
23. Ms. Hashemi has 28 chocolates and wants to give some of them to Alex and the rest to Nora. However, Alex and Nora each only want an odd number of chocolates. How many ways are there to give them chocolates?
24. Marissa has a drawer of fun hats. There are 10 top hats, 3 birthday hats, 7 cowboy hats, and 12 beanies. Marissa draws hats randomly from the drawer. How many hats does she need to draw to guarantee she has at least one hat of each type?
25. The phone zone has a 6 by 6 grid of pockets. How many ways can Brian place 2 identical phones in the phone zone pockets such that they aren’t in the same row or column of the grid?

Answers

1. 0
2. 9
3. 5
4. 30
5. 406
6. 100
7. 80% (percent sign not required) or fractional equivalent $\left(0.8, 0.80, \frac{4}{5}, \frac{8}{10}, \text{ or } \frac{80}{100}\right)$.
8. 11
9. 44
10. 12
11. 7
12. 6
13. 204
14. 31
15. Frida
16. 108
17. Same
18. 66
19. 4
20. 10
21. 8
22. 5
23. 14
24. 30
25. 450