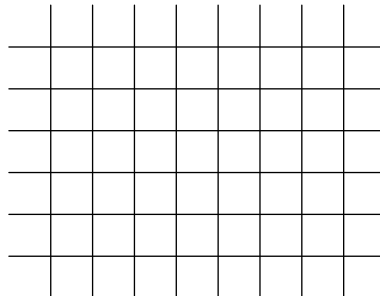


# 2026 Clover Math Competition

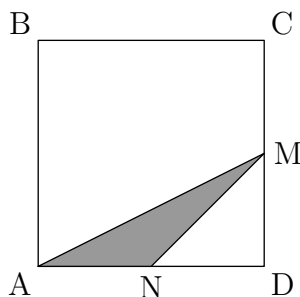
Form B

May 1, 2026

1. What is the value of the expression  $\frac{3}{2} - \frac{5}{6}$ ? Express your answer as a simplified fraction.
2. Two angles in a triangle measure  $20^\circ$  and  $26^\circ$ . What is the degree measure of the third angle?
3. Anthony has an fair coin that flips heads or tails with equal probability. What is the probability that when the coin is flipped two times, Anthony will get two tails?
4. A square with side length 3 inches has the same perimeter as another regular polygon with side length 1 inch. How many sides does this polygon have?
5. Bella's favorite number is an odd 2-digit perfect square, and the sum of its digits is also a perfect square. What is her favorite number?
6. A printer is loaded with 2026 pieces of paper. Katelyn needs to print out multiple copies of a document through this printer. One copy of the document requires 45 pieces of paper. What is the greatest number of full copies of the document that can be made?
7. Count the number of intersection points in the image shown below.



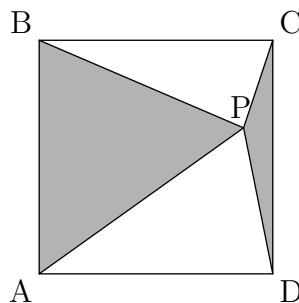
8. Square  $ABCD$  has side length 4.  $M$  is the midpoint of  $CD$ , and  $N$  is the midpoint of  $AD$ , as shown. What is the area of  $\triangle AMN$ ?



9. A certain rectangle's numeric area in square centimeters is equal to its numeric perimeter in centimeters. If one side is twice as long as the other, then how many centimeters long is the longer side?
10. Find the value of the expression  $22 \cdot 68 + 78 \cdot 68$ .
11. Compute the greatest common divisor of 20260 and 20266.
12. Two fair six-sided dice are rolled. What is the probability neither of them show a 1?
13. There are 24 hours in a day and 60 minutes in an hour. How many minutes long is a single day?
14. Two prime numbers sum to 39. Compute their product.
15. Abel, Beth, Charlie, and Darelyn each have a house on the same street, though not necessarily in this order.
- Abel is 4 houses away from Beth
  - Beth is 7 houses away from Charlie
  - Charlie is 5 houses away from Darelyn
  - Darelyn is 8 houses away from Abel.

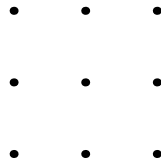
How many houses away from Abel from Charlie?

16. Allison, Bob, and Charles are three siblings in a family, and the sum of their ages in years is equal to 42. When Charles was born, Allison was exactly twice as old as Bob. How old is Bob currently, in years?
17. In any random arrangement of the letters in  $ABABAB$ , what is the probability that the rightmost  $B$  is to the right of the rightmost  $A$ ?
18. What positive integer is closest to the square root of 132?
19. Find the least even positive integer for which the remainder when it is divided by 3 is 1 and the remainder when it is divided by 5 is 3.
20. Find the sum of all two-digit positive integers with the property that they are equal to the result when the product of their digits is added to the sum of their digits. For example, 29 satisfies this property because it is equal to  $(2 \cdot 9) + (2 + 9)$ .
21. Sasha rolls a fair 6-sided die twice, and writes down the two numbers in order. What is the probability that the second roll is less than the first roll?
22. In the diagram shown below, point  $P$  lies inside square  $ABCD$  of side length 12. If  $AP = 13$ ,  $CP = 5$ , and  $BP > DP$ , then find the sum of the areas of  $\triangle ABP$  and  $\triangle CDP$ .



23. In the first half of a game, Timmy was thrown 12 balls, and he caught 25% of them. In the second half of the game, Timmy caught exactly 50% of the balls thrown at him, and in total he caught exactly 44% of the balls thrown at him. How many balls did he catch in total?

24. In the  $3 \times 3$  square grid of points shown, how many lines pass through at least two points in the grid?



25. Bob can paint a fence in 2 hours, and Tony can paint a fence in 3 hours. Suppose that they work together to paint another fence. Both of them are painting it for exactly 1 hour, but then Tony has to leave. If they always work at constant rates, how many more minutes will Bob spend to finish the fence alone?
26. At the *Expensive Grocery Store*, an apple, two bananas, and three cherries cost 10 dollars. Additionally, an apple, four bananas, and six cherries cost 17 dollars. How many dollars does an apple cost?
27. How many positive integer divisors of  $170,170,875 = 3^4 \cdot 5^3 \cdot 7^5$  are perfect squares?
28. In pentagon  $ABCDE$ , all sides are equal in length,  $\angle EAB = 140^\circ$ , and  $\angle ABC = 60^\circ$ . What is the degree measure of  $\angle BCD$ ?
29. Antler the ant is on an infinite number line. Every ten seconds, it randomly chooses left or right and moves one inch in that direction. After it has moved six times, what is the probability that it is exactly two inches from where it started?
30. On side  $AD$  of square  $ABCD$ , equilateral triangles  $\triangle AED$  and  $\triangle AFD$  are constructed, with  $E$  inside the square and  $F$  outside the square. Suppose  $CF$  meets  $AD$  at  $G$ , as shown on the next page. Find the degree measure of  $\angle CEG$ .

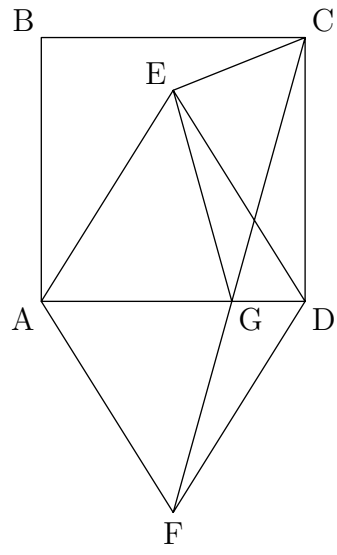


Diagram for problem 30