

Mission Math Winter Competition 2026 1-2 Exam

You will have 40 minutes to complete as much of this test as you can. There are 30 free response questions total, and questions are arranged roughly from easiest to most difficult. Units are not needed. Write answers on the given line below each question. Calculators are not allowed. Do not begin the test until told to do so. Good Luck!

Full Name: _____

Grade: _____

Age: _____

1. John has 5 chocolate chip cookies and 6 oatmeal cookies. How many cookies does he have in total?

2. What is $2 + 0 + 2 + 6$.

3. Kevin has a bag with 14 pieces of candy. He gives 9 away to his friends. How many pieces of candy does Kevin have left?

4. What is $4 + 6 \cdot 3$?

5. In basketball a layup is worth 2 points. If LeBron makes 8 layups how many points did he score?

6. What is $3 + 3 + 3 + 3 + 3 + 3 - 9 - 6$?

7. James has a rope that is 12 feet long. He cuts the rope in half and uses one half for a tire swing. How much rope does James have left?

8. What is $\frac{6}{7} - \frac{3}{7}$? Express your answer as a common fraction.

9. You and your sister want to buy a new board game. You have 13 dollars and your sister has 6 dollars. The board game costs 30 dollars. How much more money do you need?

10. A farmer has 25 boxes of apples that he wants to bring to the market. A cart can hold 10 boxes of apples. How many carts does the farmer need to carry all his apples?

11. How many feet is 84 inches?

12. What is the perimeter of a square with sides of length 9?

13. A gumball costs 50 cents. Rishi has 5 quarters. How many quarters will Rishi have left after buying a gumball?

14. Tom flips a coin. What is the probability the coin lands on heads? Express your answer as a common fraction.

15. 348 people voted Katherine for mayor. 298 people voted Bobby for mayor. How many more people voted for Katherine?

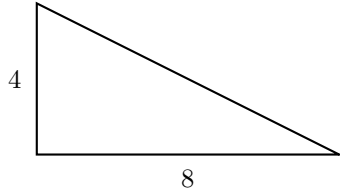
16. What is the area of a rectangle with a length of 5 and a width of 3?

17. How many factors does 6 have?

18. Ryan is buying a birthday present for his friend Lydia. A PS5 costs 429 dollars. A controller costs 79 dollars. If Ryan wants to buy both of these gifts how much will he have to spend?

19. Annie is painting a fence. 1 can of paint can be used to paint 12 fence planks. Annie has 8 cans of paint. How many fence planks can she paint?

20. What is the area of this right triangle?



21. If $a = 7$ and $b = 10$, what is the value of $3a - 2b$?

22. Juntian has a math book, a science book, and a history book. How many ways can he order his books on a shelf?

23. What is the least common multiple of 12 and 18?

24. What is $\frac{1}{2} - \frac{1}{3}$? Express your answer as a common fraction.

25. Jacob is riding his bike to his friend Sam's house. Jacob rides at 9 miles per hour. Sam lives 15 miles away. How many hours will it take Jacob to get to Sam's house? Express your answer as a common fraction.

26. What number is 40% of 200?

27. What is the remainder of $2026 \div 3$

28. Sreeram puts a number into the arithmetic machine. The machine first doubles his number, then it adds 19, and finally divides the result by 7. If the machine returns the number 5 what was Sreeram's original number?

29. The ratio of dogs to cats in a pet store is $2 : 3$. Given that there are 60 cats in the store how many dogs are there?

30. How many prime numbers are less than 20? Prime numbers are numbers with exactly 2 divisors.
