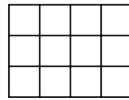
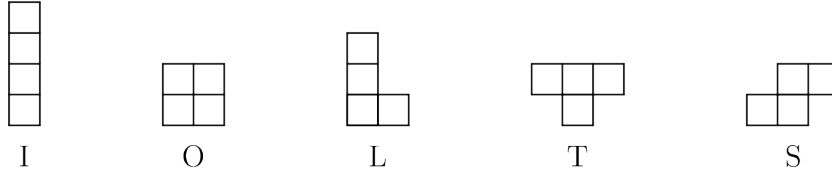


AMC 8 Practice Test - Sample (40 Questions)
mathalready.com | Free AMC 8 Practice

1. [AMC 8 2025 #11]

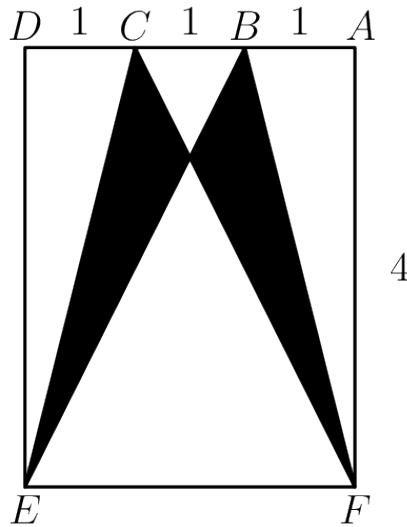
A tetromino consists of four squares connected along their edges. There are five possible tetromino shapes, I, O, L, T, and S, shown below, which can be rotated or flipped over. Three tetrominoes are used to completely cover a 3 4 rectangle. At least one of the tiles is an S



- (A) 14
- (B) 10
- (C) 15
- (D) 18
- (E) 12

2. [AMC 8 2016 #22]

Rectangle DEFA below is a 3 4 rectangle with $DC=CB=BA=1$. The area of the "bat wings" (shaded area) is



- (A) 3
- (B) 2.5
- (C) 4
- (D) 3.5
- (E) 2

AMC 8 Practice Test - Sample (40 Questions)
mathalready.com | Free AMC 8 Practice

3. [AMC 8 2016 #12]

Jefferson Middle School has the same number of boys and girls. 34 of the girls and 23 of the boys went on a field trip. What fraction of the students on the field trip were girls?

- (A) $\frac{2}{3}$ (B) $\frac{9}{17}$
(C) $\frac{1}{2}$ (D) $\frac{14}{15}$
(E) $\frac{7}{13}$

4. [AMC 8 2026 #1]

What is the value of the following expression? $1+2-3+4+5-6+7+8-9+10+11-12$

- (A) '24' (B) '27'
(C) '21' (D) '18'
(E) '30'

5. [AMC 8 2017 #19]

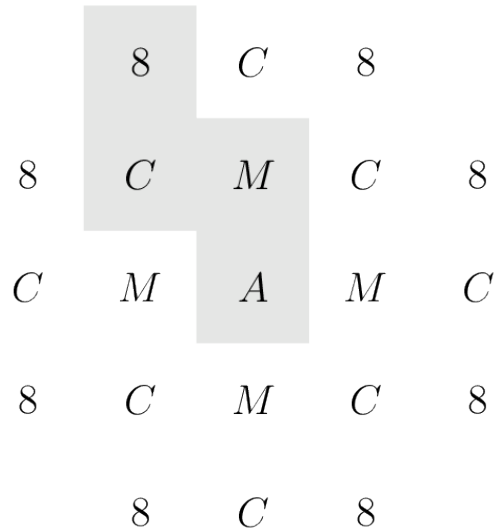
For any positive integer M , the notation $M!$ denotes the product of the integers 1 through M . What is the largest integer n for which 5^n is a factor of the sum $98!+99!+100!$?

- (A) 23 (B) 24
(C) 26 (D) 25
(E) 27

AMC 8 Practice Test - Sample (40 Questions)
mathalready.com | Free AMC 8 Practice

6. [AMC 8 2017 #15]

In the arrangement of letters and numerals below, by how many different paths can one spell AMC8? Beginning at the A in the middle, a path only allows moves from one letter to an adjacent (above, below, left, or right, but not diagonal) letter. One example of such a path is trace



- (A) 24
- (B) 8
- (C) 12
- (D) 9
- (E) 36

7. [AMC 8 2017 #12]

The smallest positive integer greater than 1 that leaves a remainder of 1 when divided by 4, 5, and 6 lies between which of the following pairs of numbers?

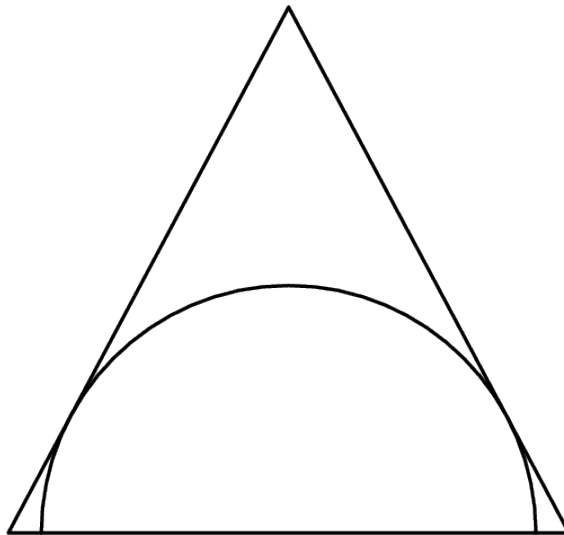
- (A) 11
- (B) 15
- (C) 13
- (D) 9
- (E) 7

AMC 8 Practice Test - Sample (40 Questions)

mathalready.com | Free AMC 8 Practice

8. [AMC 8 2016 #25]

A semicircle is inscribed in an isosceles triangle with base 16 and height 15 so that the diameter of the semicircle is contained in the base of the triangle as shown. What is the radius of the semicircle?



- (A) $17\sqrt{2}/2$
- (C) $17\sqrt{3}/2$
- (E) $120/17$

- (B) 10
- (D) $4\sqrt{3}$

9. [AMC 8 2026 #6]

Peter lives near a rectangular field that is filled with blackberry bushes. The field is 10 meters long and 8 meters wide, and Peter can reach any blackberries that are within 1 meter of an edge of the field. The portion of the field he can reach is shaded in the figure below. Wh

- (A) 6.5
- (C) 4.5
- (E) 6

- (B) 5
- (D) 5.5

10. [AMC 8 2016 #21]

A top hat contains 3 red chips and 2 green chips. Chips are drawn randomly, one at a time without replacement, until all 3 of the reds are drawn or until both green chips are drawn. What is the probability that the 3 reds are drawn?

- (A) $3/10$
- (C) $7/10$
- (E) $1/2$

- (B) $3/5$
- (D) $2/5$

AMC 8 Practice Test - Sample (40 Questions)
mathalready.com | Free AMC 8 Practice

11. [AMC 8 2025 #2]

The table below shows the ancient Egyptian hieroglyphs that were used to represent different numbers. For example, the number 32 was represented by the hieroglyphs $\|\|$. What number is represented by the following combination of hieroglyphs?

- | | |
|--------|--------|
| (A) 18 | (B) 20 |
| (C) 16 | (D) 14 |
| (E) 12 | |

12. [AMC 8 2026 #24]

The notation $n!$ (read "n factorial") is defined as the product of the first n positive integers. (For example, $3! = 1 \cdot 2 \cdot 3 = 6$). Define the superfactorial of a positive integer, denoted by $n^{\#}$, to be the product of the factorials of the first n integers. (For example, $3^{\#} = 1! \cdot 2! \cdot 3!$)

- | | |
|-----------|-----------|
| (A) '147' | (B) '156' |
| (C) '171' | (D) '168' |
| (E) '150' | |

13. [AMC 8 2024 #19]

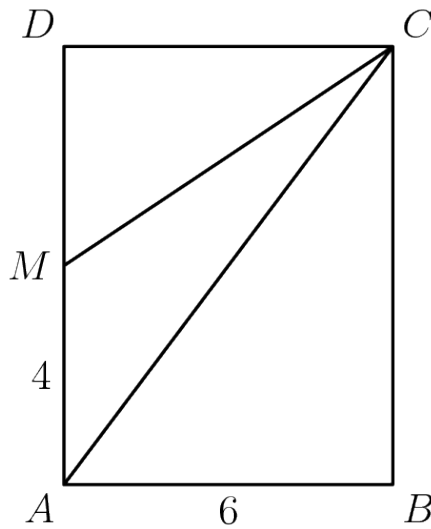
Jordan owns 15 pairs of sneakers. Three fifths of the pairs are red and the rest are white. Two thirds of the pairs are high-top and the rest are low-top. The red high-top sneakers make up a fraction of the collection. What is the least possible value of this fraction?

- | | |
|-----------|-----------|
| (A) $1/9$ | (B) $1/3$ |
| (C) $4/9$ | (D) $2/9$ |
| (E) $5/9$ | |

AMC 8 Practice Test - Sample (40 Questions)
mathalready.com | Free AMC 8 Practice

14. [AMC 8 2016 #2]

In rectangle $ABCD$, $AB=6$ and $AD=8$. Point M is the midpoint of AD . What is the area of AMC ?



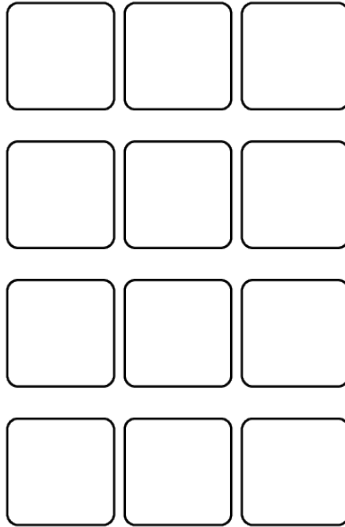
- (A) 18
- (C) 24
- (E) 12

- (B) 20
- (D) 15

AMC 8 Practice Test - Sample (40 Questions)
mathalready.com | Free AMC 8 Practice

15. [AMC 8 2024 #25]

A small airplane has 4 rows of seats with 3 seats in each row. Eight passengers have boarded the plane and are distributed randomly among the seats. A married couple is next to board. What is the probability there will be 2 adjacent seats in the same row for the couple?



- (A) 10
- (B) 13
- (C) 9
- (D) 11
- (E) 12

16. [AMC 8 2018 #25]

How many perfect cubes lie between 2^8+1 and $2^{18}+1$, inclusive?

- (A) 57
- (B) 9
- (C) 4
- (D) 10
- (E) 58

17. [AMC 8 2016 #13]

Two different numbers are randomly selected from the set $\{-2, -1, 0, 3, 4, 5\}$ and multiplied together. What is the probability that the product is 0?

- (A) $1/4$
- (B) $1/5$
- (C) $1/6$
- (D) $1/2$
- (E) $1/3$

AMC 8 Practice Test - Sample (40 Questions)
mathalready.com | Free AMC 8 Practice

18. [AMC 8 2026 #7]

Mika would like to estimate how far she can ride a new model of electric bike on a fully charged battery. She completed two trips totaling 40 miles. The first trip used 12 of the total battery power, while the second trip used 310 of the total battery power. How many miles can th

- (A) '45' (B) '52'
(C) '50' (D) '55'
(E) '48'

19. [AMC 8 2026 #2]

In the array shown below, three 3s are surrounded by 2s, which are in turn surrounded by a border of 1s. What is the sum of the numbers in the array?
$$\begin{array}{cccccccc} 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 \\ 1 & 2 & 2 & 2 & 2 & 2 & 2 & 1 \\ 1 & 2 & 3 & 3 & 3 & 2 & 1 & 1 \\ 1 & 2 & 2 & 2 & 2 & 2 & 2 & 1 \end{array}$$

- (A) '49' (B) '51'
(C) '53' (D) '55'
(E) '57'

20. [AMC 8 2017 #11]

A square-shaped floor is covered with congruent square tiles. If the total number of tiles that lie on the two diagonals is 37, how many tiles cover the floor?

- (A) 1369 (B) 1296
(C) 148 (D) 324
(E) 361

21. [AMC 8 2017 #13]

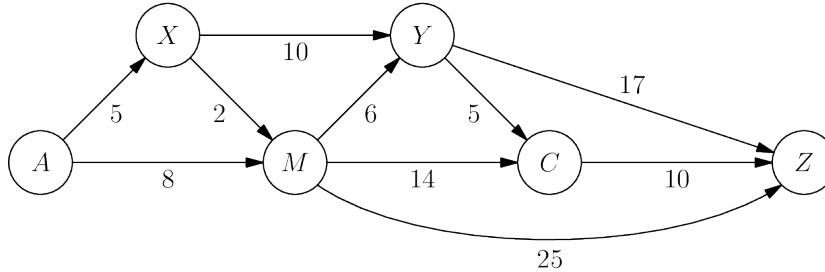
Peter, Emma, and Kyler played chess with each other. Peter won 4 games and lost 2 games. Emma won 3 games and lost 3 games. If Kyler lost 3 games, how many games did he win?

- (A) 17 (B) 21
(C) 23 (D) 26
(E) 14

AMC 8 Practice Test - Sample (40 Questions)
mathalready.com | Free AMC 8 Practice

22. [AMC 8 2024 #14]

The one-way routes connecting towns A, M, C, X, Y, and Z are shown in the figure below (not drawn to scale). The distances in kilometers along each route are marked. Traveling along these routes, what is the shortest distance from A to Z in kilometers?



- (A) 36
- (B) 20
- (C) 28
- (D) 32
- (E) 24

23. [AMC 8 2024 #6]

Sergai skated around an ice rink, gliding along different paths. The gray lines in the figures below show four of the paths labeled P, Q, R, and S. What is the sorted order of the four paths from shortest to longest?

- (A) 12
- (B) 14
- (C) 16
- (D) 20
- (E) 18

24. [AMC 8 2026 #16]

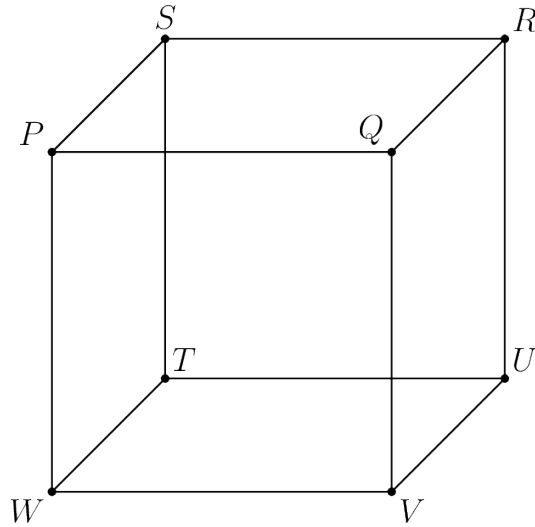
Consider all positive four-digit integers consisting of only even digits. What fraction of these integers are divisible by 4?

- (A) $\frac{2}{5}$
- (B) $\frac{1}{4}$
- (C) $\frac{3}{5}$
- (D) $\frac{1}{2}$
- (E) $\frac{3}{4}$

AMC 8 Practice Test - Sample (40 Questions)
mathalready.com | Free AMC 8 Practice

25. [AMC 8 2024 #20]

Any three vertices of the cube PQRSTU \overline{VW} , shown in the figure below, can be connected to form a triangle. (For example, vertices P, Q, and R can be connected to form isosceles PQR.) How many of these triangles are equilateral and contain P as a vertex?



- (A) 20
- (B) 14
- (C) 18
- (D) 16
- (E) 12

26. [AMC 8 2017 #1]

Which of the following values is largest?

- (A) 9
- (B) 0
- (C) 8
- (D) 9
- (E) 10

27. [AMC 8 2025 #4]

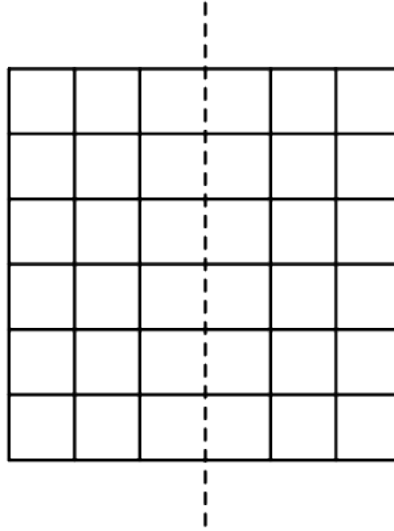
Lucius is counting backward by 7 s. His first three numbers are 100, 93, and 86. What is his 10th number?

- (A) 8
- (B) 4
- (C) 5
- (D) 3
- (E) 6

AMC 8 Practice Test - Sample (40 Questions)
mathalready.com | Free AMC 8 Practice

28. [AMC 8 2025 #15]

Kei draws a 6-by-6 grid. He colors 13 of the unit squares silver and the remaining squares gold. Kei then folds the grid in half vertically, forming pairs of overlapping unit squares. Let m and M equal the least and greatest possible number of gold-on-gold pairs, respectively.

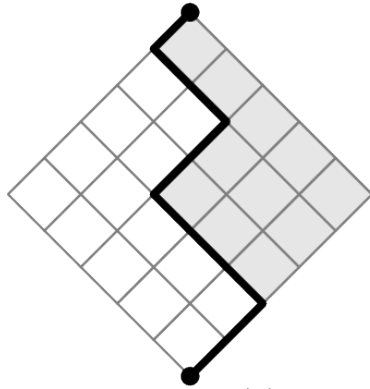


- (A) 10
- (C) 9
- (E) 12

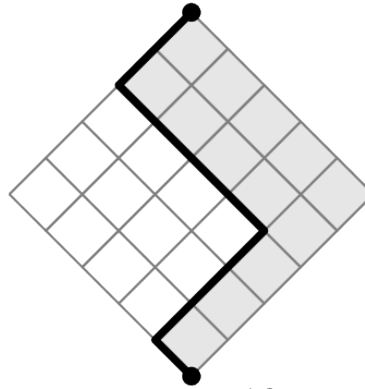
- (B) 6
- (D) 8

29. [AMC 8 2025 #25]

Makayla finds all the possible ways to draw a path in a 5 5 diamond-shaped grid. Each path starts at the bottom of the grid and ends at the top, always moving one unit northeast or northwest. She computes the area of the region between each path and the right side of the grid. Tw



area = 11



area = 13

- | | |
|---------|---------|
| (A) 336 | (B) 252 |
| (C) 126 | (D) 168 |
| (E) 210 | |

30. [AMC 8 2026 #20]

The land of Catania uses gold coins and silver coins. Gold coins are 1 mm thick and silver coins are 3 mm thick. In how many ways can Taylor make a stack of coins that is 8 mm tall using any arrangement of gold and silver coins, assuming order matters?

- | | |
|----------|----------|
| (A) '13' | (B) '16' |
| (C) '10' | (D) '3' |
| (E) '7' | |

31. [AMC 8 2018 #2]

What is the value of the product $\lfloor (1+11) (1+12) (1+13) (1+14) (1+15) (1+16) \rfloor$?

- | | |
|-------------------|-------------------|
| (A) $\frac{7}{2}$ | (B) $\frac{4}{3}$ |
| (C) 8 | (D) $\frac{7}{6}$ |
| (E) 7 | |

AMC 8 Practice Test - Sample (40 Questions)

mathalready.com | Free AMC 8 Practice

37. [AMC 8 2016 #5]

The number N is a two-digit number. - When N is divided by 9, the remainder is 1. - When N is divided by 10, the remainder is 3. What is the remainder when N is divided by 11?

- (A) 0 (B) 7
(C) 2 (D) 4
(E) 5

38. [AMC 8 2026 #18]

In how many ways can 60 be written as the sum of two or more consecutive odd positive integers that are arranged in increasing order?

- (A) '4' (B) '3'
(C) '5' (D) '2'
(E) '1'

39. [AMC 8 2017 #3]

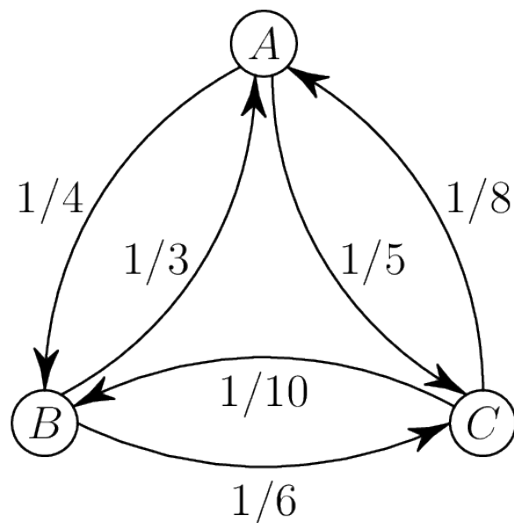
What is the value of the expression $16 \div 8 \cdot 4$?

- (A) 15 (B) 17
(C) 18 (D) 14
(E) 16

AMC 8 Practice Test - Sample (40 Questions)
mathalready.com | Free AMC 8 Practice

40. [AMC 8 2025 #17]

In the land of Markovia, there are three cities: A, B, and C. There are 100 people who live in A, 120 who live in B, and 160 who live in C. Everyone works in one of the three cities, and a person may work in the same city where they live. In the figure below, an arrow point



- (A) 12
- (C) 8
- (E) 15

- (B) 10
- (D) 9

AMC 8 Practice Test - Sample (40 Questions)
mathalready.com | Free AMC 8 Practice

Answer Key

1. A	2. A	3. B	4. D	5. D
6. A	7. E	8. E	9. A	10. D
11. D	12. C	13. E	14. A	15. E
16. E	17. B	18. C	19. C	20. B
21. B	22. B	23. A	24. C	25. D
26. B	27. B	28. C	29. B	30. A
31. C	32. A	33. B	34. B	35. D
36. C	37. E	38. D	39. E	40. B

Problems copyrighted by Mathematical Association of America | mathalready.com