



MCMC Fall 2025

Intermediate - Accuracy

DO NOT BEGIN UNTIL YOU ARE INSTRUCTED TO DO SO

Rules and Code of Conduct

- This exam consists of 20 multiple choice and 5 short-answer questions. Please note that the difficulty of questions increases as the test progresses.
- You will have 50 minutes to complete this exam. Once the exam begins, there will be no pauses in your time.
- No aids of any type are permitted for this exam other than the resources provided to you.
- An ample amount of scratch paper will be provided if you need more during the examination. Please raise your hand and remain in your seat. A proctor will bring you the extra paper.
- For the multiple-choice portion, we will be using a Scantron. Fill in your answers completely and ensure there are no stray marks.
- For the short-answer questions, make sure to write your answers legibly in the given spaces on the test booklet. If your grader is unable to determine the answer you wrote, you may lose points. Please write your digits 0 - 9 in the boxes below in the boxes below so that we can reasonably judge your handwriting in the case of doubt.
- If you have any other questions at this time, please raise your hand. We will begin shortly. We wish you all good luck!

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MULTIPLE CHOICE QUESTIONS

1. The sum of 19.39 and 8.17 is

- (a) 27.46 (b) 27.26 (c) 27.66
(d) 27.56 (e) 27.36

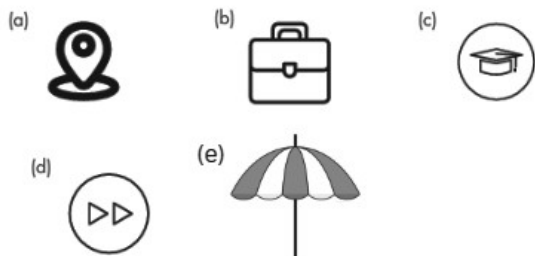
2. Express 517 hundredths as a decimal.

- (a) 51.7 (b) 0.517 (c) 5.17
(d) 5170 (e) 517

3. The product of 137.93 and 6 is

- (a) 827.28 (b) 827.68 (c) 827.58
(d) 827.38 (e) 827.48

4. Which of the following figures below is not symmetrical?



5. If a is the third prime number after 4, what is the value of a ?

- (a) 7 (b) 11 (c) 9
(d) 5 (e) 13

6. Benny has a bag of marbles. Inside this bag, there are 2 blue marbles and 3 green marbles. What are the chances that if he chooses one at random, it is a blue marble?

- (a) $\frac{3}{2}$ (b) $\frac{1}{5}$ (c) $\frac{2}{5}$
(d) $\frac{3}{5}$ (e) $\frac{2}{3}$

7. $12.408 = 12 + 0.4 + _$

- (a) 0.8 (b) 0.08 (c) 8
(d) 0.0008 (e) 0.008

8. The following sequence goes 1, 1, 2, 3, 5, a ... What is the value of a ?

- (a) 7 (b) 8 (c) 6
(d) 13 (e) 5

9. Benny bought 7.8 lbs of salt for his restaurant. He packed the salt equally into 12 bags. What was the weight of each bag?

- (a) 0.55 lbs (b) 0.75 lbs (c) 0.65 lbs
(d) 0.85 kg (e) 0.75 kg

10. The perimeter of a square is 64 ft. Find its area.

- (a) 256 ft^2 (b) 16 ft^2 (c) 128 ft^2
(d) 32 ft^2 (e) 64 ft^2

11. The perimeter of a square is 144 in. Find its length.

- (a) 48 in. (b) 36 in. (c) 24 in.
(d) 72 in. (e) 12 in.

12. What is the sum of the positive integer divisors of 14?

- (a) 28 (b) 10 (c) 14
(d) 24 (e) 21

13. Benny sold 120 cookies for his school's fundraiser. He sold them at \$3.16 for 10 cookies. How much money did he get from selling the cookies?

- (a) \$37.82 (b) \$38.92 (c) \$36.92
(d) \$37.92 (e) \$38.02

14. If $(x^2)(4) = 64$, what is the value of x ?

- | | | |
|-------|-------|-------|
| (a) 6 | (b) 3 | (c) 4 |
| (d) 2 | (e) 5 | |

15. Benny is leaving his house, but can't decide what to wear. He has 5 coats, 3 hats, and 2 pairs of shoes. How many different outfits could he wear?

- | | | |
|--------|--------|--------|
| (a) 40 | (b) 60 | (c) 10 |
| (d) 20 | (e) 30 | |

16. If $2x + 3 = 4x - 1$, then what is the value of $11x$?

- | | | |
|--------|--------|--------|
| (a) 22 | (b) 18 | (c) 44 |
| (d) 2 | (e) 20 | |

17. Suppose 4 zips = 3 zaps. Also, suppose 2 zaps = 5 zops. How many zips are equivalent to 30 zops?

- | | | |
|--------|--------|--------|
| (a) 16 | (b) 20 | (c) 12 |
| (d) 22 | (e) 9 | |

18. Benny was born on January 1, 2000. His mother was born on January 1, 1975, and his father was born on January 1, 1970. In what year was the sum of their ages 100?

- | | | |
|----------|----------|----------|
| (a) 2010 | (b) 2025 | (c) 2005 |
| (d) 2020 | (e) 2015 | |

19. Benny is now a farmer! He only has chickens and cows. If he owns 18 animals with a total of 66 legs, how many chickens does he have?

- | | | |
|-------|--------|--------|
| (a) 5 | (b) 13 | (c) 10 |
| (d) 3 | (e) 15 | |

20. Sarah has 10 fewer points than Benny. Benny has 4 more points than Chloe. Chloe has three times as many points as David. If David has 6 points, how many points does Sarah have?

(a) 12

(b) 18

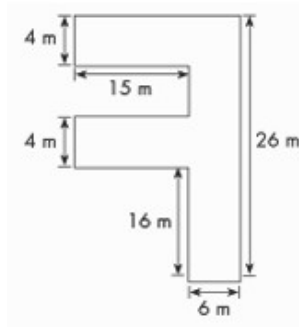
(c) 22

(d) 32

(e) 8

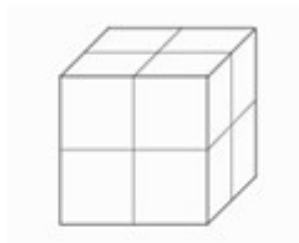
FREE RESPONSE QUESTIONS

21. In square meters, what is the area of the diagram below?



Answer: _____ m^2

22. Benny puts together 8 congruent cubes, each with side length 7 meters, to form one big cube. What is the total perimeter of all of the faces of the big cube?



Answer: _____ m

23. Benny is going swimming! He has two hoses to fill his pool. His first hose can fill the pool in 6 hours. His second hose can fill it in 9 hours. Working together, how long will it take, in minutes, for the two hoses to fill the pool if they start at the same time?

Answer: _____ min

24. Benny is playing Monopoly. He needs to roll either a 7 or a 12 to avoid paying rent. As a fraction in simplest form, what is the probability that Benny doesn't have to pay rent? Note that Benny will be rolling 2 dice.

Answer: _____

25. In the following magic square, every row and column adds to the same value. Find x .

13		9
11	x	
17		13

Answer: _____

This is the end of the test. If you have extra time, look over your answer choices. Congratulations on completing! – Benny