Elementary School Division Mental Math, Section 1

40 minutes, 25 questions

Instructions

- DO NOT open the test until told to do so.
- NO scratch paper!
- Express all of your answers in simplified form.
- Please read the instructions before you start.

Please write your name :

Please write your ID number :

Instructions : This is Section 1, Mental Math. You MAY NOT use scratch paper on this section or jot down any work. This is meant to be done in your head. Do all of the questions to the best of your ability. All questions in this section are multiple choice.

Bubble in the multiple choice answers onto the green Scantron.

IF we cannot read your answers, it will be marked wrong.

Multiple Choice

1. $12 \times 4 + 36 \div 9$ (A) 52 (B) 42 (C) 62 (D) 32 (E) 72 2. 2443 - 123 (A) 2220 (B) 2280 (C) 2360 (D) 2320 (E) 2420 **3.** $(12 - 6) \times 3 + 21$ (A) 39 (B) 42 (C) 36 (D) 45 (E) 33 **4.** $9 + 3 \times 2 - 4 \div 2$ (A) 15 (B) 13 (C) 17 (D) 10 (E) 20 **5.** $36 \div 4 + 5 \times 2$ (A) 18 (B) 20 (C) 19 (D) 21 (E) 17 6. What is 64 percent of 50? (A) 28 (B) 30 (C) 64 (D) 32 (E) 36 7. $(? - 5) \times 3 = 9$ (A) 11 (B) 8 (C) 6 (D) 9 (E) 20 8. Alex works out 15 times a month. How many times does he workout in a year? (A) 200 (B) 160 (C) 180 (D) 170 (E) 250 9. Casey's car traveled 300 miles in 4 hours. At what speed was Casey's car traveling? (A) 60 mph (B) 75 mph (C) 80 mph

(D) 70 mph (E) 90 mph

10. What is the price of one tennis ball in a package of 4 balls, if a package costs \$10.44?

(A) \$2.61 (B) \$2.76 (C) \$2.50

(D) \$2.40 (E) \$2.80

11. A bike accelerates uniformly at a rate of 2 m/s^2 . How long does it take to get to a speed of 10 m/s? (A) 4 (B) 10 (C) 5 (D) 6 (E) 8

12. What is $45 \times 7?$

(A) 290 (B) 330 (C) 315 (D) 300 (E) 340

13. How far will Jake run if he runs at a rate of 50 feet per minute for an hour?(A) 3000 (B) 2500 (C) 2800 (D) 3200(E) 3500

14. $20 - \frac{12}{4} + (5 \times 2)$ (A) 23 (B) 30 (C) 27 (D) 25 (E) 20

15. 3x + 7 = 22(A) 7 (B) 5 (C) 6 (D) 10 (E) 3

16. $\frac{1}{z} + 9 = 11$ (A) 0.3 (B) 0.7 (C) 0.5 (D) 0.4 (E) 0.6 17. Convert 2.5 feet to inches.(A) 25 (B) 35 (C) 32 (D) 28 (E) 30

18. If an object weighs 20 kilograms on Earth, what would be its weight on the moon where gravity is approximately 1/6th that of Earth's?
(A) 3.33 kg (B) 4.50 kg (C) 2.75 kg
(D) 3.81 kg (E) 4.99 kg

19. Isaac needs to pay the cashier exactly \$49. In his wallet, he has 2 twenty dollar bills and 6 one dollar bills. How many quarters does Isaac need? (A) 8 (B) 10 (C) 12 (D) 14 (E) 16

20. What is the mean of the test scores
86%, 50%, and 26%?
(A) 50 (B) 60 (C) 48 (D) 58 (E) 54

21. How many minutes are in a day?
(A) 1200 (B) 1440 (C) 1500
(D) 1300 (E) 1600

22. What is 80% of 50?(A) 30 (B) 45 (C) 38 (D) 40 (E) 35

23. What is 9116 - 527? (A) 8134 (B) 9298 (C) 8589 (D) 6721 (E) 7463

24. Convert 645 grams to kilograms.
(A) 0.654 (B) 0.351 (C) 0.123
(D) 2.143 (E) 0.645

25. What is the sum of the first 10 prime numbers?

(A) 129 (B) 133 (C) 120 (D) 137 (E) 124

(E) 124