

MathEdge Speed Math Contest Intermediate Level Sample Test

INSTRUCTIONS

- Time limit: **15 minutes**
- No **calculators is allowed** on this test.
- Some multiple-choice questions do not have the correct answer as one of the choices. On those questions, the response is e) not given
- All fractions are expressed in lowest terms.
- All answers that are improper fractions are written as mixed numerals or whole numbers.

i.e. $\frac{4}{2}$ should be written as 2

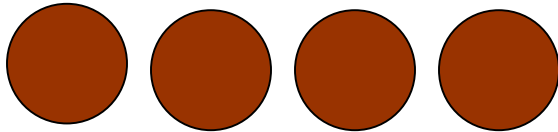
$\frac{7}{3}$ should be
written as $2\frac{1}{3}$

1. $7329 =$
- $7000 + 300 + 10 + 9$
 - $(4000 + 200 + 10 + 4) + (3000 + 100 + 10 + 5)$
 - $(4000 + 100 + 10 + 4) + (3000 + 100 + 10 + 5)$
 - $(4000 + 200 + 10 + 4) + (2000 + 100 + 10 + 5)$
 - Not given

2. Which of the following is FALSE?
- $400 < 487 < 500$
 - $450 < 487 < 500$
 - $475 < 487 < 500$
 - $490 < 487 < 500$
 - Not given

3. 120 is not equal to
- 14×8
 - $150 - 30$
 - $80 + 40$
 - Ten dozen
 - Not given

4.



This figure represents what fraction?

- $3/5$
 - $4/5$
 - $5/4$
 - $5/5$
 - Not given
5. Which list of fractions goes from the least to the greatest?
- $1/2, 1/4, 1/1$
 - $1/1, 1/2, 1/4$
 - $1/4, 1/2, 1/1$
 - $1/2, 1/1, 1/4$
 - Not given

6. Which fraction is not equivalent to $1/4$?
- $2/8$
 - $4/16$
 - $3/15$
 - $3/12$
 - Not given
7. Which number is the greatest?
- 0.75
 - $2/3$
 - $5/5$
 - 125%
 - 2.5

8. The numbers 2, 5, 11, and 23 are all
- even numbers.
 - odd numbers.
 - square numbers.
 - prime numbers.
 - Not given

9. $14 \times 56 =$
- 784
 - 792
 - 794
 - 874
 - Not given

10. $279 + 786 =$
- 965
 - 975
 - 1055
 - 1065
 - Not given

11. $900 - 438 =$
- 462
 - 561
 - 562
 - 572
 - Not given

12. $732 \div 5 =$
- 136 r 2
 - 144 r 2
 - 146 r 3
 - 148 r 2
 - Not given

13. $27 + 368 + 9 =$
 a. 404
 b. 405
 c. 414
 d. 415
 e. Not given
14. $(2 \times 4) + (2 \times 5) - (2 \times 6) =$
 a. 4
 b. 6
 c. 30
 d. 288
 e. Not given
15. $\$4.56 + \$3.98 =$
 a. \$7.54
 b. \$7.56
 c. \$8.54
 d. \$8.64
 e. Not given
16. $\$4 + \$8.34 + \$213 + 16\text{¢} =$
 a. \$14.63
 b. \$221.54
 c. \$225.50
 d. \$241.34
 e. Not given
17. $37.8 + 67.6 =$
 a. 105.4
 b. 105.5
 c. 106.4
 d. 106.5
 e. Not given
18. $4.13 + 9.9 =$
 a. 5.12
 b. 13.22
 c. 14.02
 d. 14.03
 e. Not given
19. $15.7 - 8.8 =$
 a. 6.8
 b. 6.9
 c. 7.8
 d. 7.9
 e. Not given
20. $24.68 - 13.9 =$
 a. 10.59
 b. 10.78
 c. 11.59
 d. 23.29
 e. Not given
21. $483 \div 4 =$
 a. 12 r 3
 b. 120 r 2
 c. 120 r 3
 d. 123
 e. Not given
22. $46.2 - 28.43 =$
 a. 17.77
 b. 17.78
 c. 17.83
 d. 24.19
 e. Not given
23. $7/8 - 5/8 =$
 a. 2/0
 b. 1/4
 c. 3/8
 d. 12/8
 e. Not given
24. $15/18$ simplifies to
 a. 2/3
 b. 3/4
 c. 5/6
 d. 6/5
 e. Not given
25. $11 - 2 \times 5 =$
 a. 1
 b. 2
 c. 45
 d. 50
 e. Not given
26. What is $1/3$ of 252?
 a. 74
 b. 82
 c. 83
 d. 84
 e. Not given
27. What is $2/5$ of 450?
 a. 90

- b. 180
c. 200
d. 1125
e. Not given
28. What is the square of 16?
a. 2
b. 4
c. 224
d. 256
e. Not given
29. $4^3 =$
a. 12
b. 16
c. 64
d. 256
e. Not given
30. What is the square root of 9?
a. 3
b. 9
c. 49
d. 81
e. Not given
31. Which number is NOT a multiple of 3?
a. 279
b. 1356
c. 2589
d. 14,728
e. Not given
32. Which number is NOT a factor of 72?
a. 2
b. 6
c. 12
d. 36
e. Not given
33. $735 \div 8 =$
a. $91 \frac{7}{8}$
b. $92 \frac{1}{8}$
c. $92 \frac{5}{8}$
d. $92 \frac{7}{8}$
e. Not given

34. $567 \times 984 =$
a. 556,828
b. 557,288
c. 557,928
d. 558,248
e. Not given
35. $13,992 \div 24 =$
a. 583
b. 588
c. 593
d. 598
e. Not given

For questions 36 – 38, choose the closest estimate to the correct answer:

36. $798 \times 9012 =$
a. 630,000
b. 720,000
c. 6,300,000
d. 7,200,000
e. 8,100,000
37. $5/9 + 9/10 + 19/20 =$
a. $1 \frac{1}{2}$
b. 2
c. $2 \frac{1}{2}$
d. 3
e. $3 \frac{1}{2}$
38. What is $1/5$ of 407?
a. 70
b. 80
c. 85
d. 87
e. 90

For questions 39 – 40, choose the answer that is the next number in the sequence:

39. 1, 4, 9, 16, 25, 36, . . .
a. 47
b. 48
c. 49
d. 64
e. Not given
40. 2, 1, 3, 2, 4, 3, 5, . . .
a. 3
b. 4
c. 5
d. 6
e. Not given