


20. What is the Least Common Multiple of 15, 20, and 36?
 (A) 5 (B) 900 (C) 180 (D) 300 (E) N.O.T.
21. If $(0.\overline{6})x = 1.\overline{3}$, then x
 (A) $0.\overline{6}$ (B) 2 (C) $0.\overline{7}$ (D) $\frac{1}{2}$ (E) N.O.T.
22. How many distinct rectangles of any size are in this figure: 
 (A) 6 (B) 21 (C) 12 (D) 15 (E) N.O.T.
23. What is the ratio of males to females if 15 of the 32 students in a class are females?
 (A) $\frac{17}{32}$ (B) $\frac{15}{32}$ (C) $\frac{17}{15}$ (D) $\frac{15}{17}$ (E) N.O.T.
24. It costs \$8 to travel 30 miles on a train. At this rate, how far can you travel for \$36?
 (A) 180 miles (B) 135 miles (C) 58 miles (D) 120 miles (E) N.O.T.
25. $10^9 \div (1\text{million})$
 (A) 10^8 (B) 1000 (C) 100 (D) 10^5 (E) N.O.T.
26. In a bag of marbles $\frac{1}{6}$ are green, $\frac{1}{12}$ are yellow, $\frac{1}{2}$ are white, and $\frac{1}{4}$ are blue. Are there marbles of any other color in the bag?
 (A) Yes (B) No
27. What is 25% of 90% of $71\frac{1}{9}$
 (A) 20.5 (B) 12 (C) 16 (D) 10.5 (E) N.O.T.
28. Evaluate $\frac{x+y}{3}$ given $x = -3$ and $y = \frac{1}{2}$
 (A) $\frac{1}{2}$ (B) $\frac{5}{9}$ (C) $\frac{-5}{6}$ (D) $-1\frac{1}{2}$ (E) N.O.T.
29. The area of square ABCD is 100 in^2 . E is the midpoint of \overline{AB} and F is the midpoint of \overline{AD} . What is the area of $\triangle BFE$?
 (A) 50 in^2 (B) 12.5 in^2 (C) 25 in^2 (D) 37.5 in^2 (E) N.O.T.

7^1

- (A) $\frac{1}{7}$ (B) 28^1 (C) 30^1 (D) (E) OT

Solve for

- (A) 32 (B) (C) (D) (E) O

Phil walks $\frac{1}{2}$ miles per hour. If the store is four miles away, how long will it take him to walk there?

- (A) (B) (C) (D) (E) OT

- (A) (B) 785 (C) 785 (D) 785 (E) OT

If $9^{42/x} = 3$ then

- (A) 2 (B) (C) $\frac{1}{2}$ (D) 9 (E) OT

- (A) (B) (C) (D) 100 (E) OT

If $2^x = 3$ then 2^{2x} when

- (A) 19 (B) (C) (D) (E) OT

$$\frac{3}{\frac{16}{(6+3)}}$$

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

$(1 \text{ billion})^2$ followed by

- (A) (B) (C) (D) (E) OT

A rectangle with width 2 has an area equal to that of a square with side length 3. What is the perimeter of the rectangle?

- (A) (B) (C) (D) (E) OT

40. $6.038 + 15.7473 + 2.21 + 3.0043 =$ (Round to the nearest thousandth)?
 (A) 27.000 (B) 26.999 (C) 26.900 (D) 27.100 (E) N.O.T.
41. What is the average (mean) of the following numbers: 13, 7.2, 6, 23, 17.8?
 (A) 13.4 (B) 1 (C) 15 (D) 12 (E) N.O.T.
42. A \$60 hat is on sale for 15% off. What is the sale price of the hat before tax?
 (A) \$36.95 (B) \$40 (C) \$51 (D) \$45 (E) N.O.T.
43. $(-7) - (-4)$
 (A) 11 (B) 11 (C) 3 (D) 3 (E) N.O.T.
44. If $7265 \div ? = 269 \text{ r}2$, then $? =$
 (A) 23 (B) 25 (C) 27 (D) 29 (E) N.O.T.
45. Suppose a photo is reduced $66\frac{2}{3}\%$, and the result is reduced again by the same percentage. To get it back to the original size, by what percent must it be enlarged?
 (A) $133\frac{1}{3}\%$ (B) 900%. (C) 225% (D) 300%. (E) N.O.T.
46. What is the missing term in the following sequence: 1, 2, 2, 5, 9, 16, ? , 55, 101,.....
 (A) 25 (B) 35 (C) 22 (D) 30 (E) N.O.T.
47. Which digit of the number 36221547.1374859 is in the millionths place?
 (A) 2 (B) (C) 5 (D) 8 (E) N.O.T.
48. What is $16\frac{2}{3}\%$ of 180?
 (A) 18 (B) 25 (C) 22 (D) 24 (E) N.O.T.
49. I purchased a \$25 book on sale for \$18.50. What percent was it marked down?
 (A) 20% (B) 26% (C) 25% (D) 30% (E) N.O.T.
50. $\frac{72}{12} + 2\{8(.75 - \frac{1}{5})\} \div 1.1$?
 (A) $16\frac{6}{11}$ (B) 21 (C) 14 (D) 16 (E) N.O.T.