

Name _____

Baseline Test

Math Course 2

1. $7610 \div 25$ equals

- A. $34\frac{2}{5}$ B. $340\frac{2}{5}$ C. $304\frac{2}{5}$ D. $300\frac{2}{5}$ E. None correct

2. $8.75 + 6 + 4.5$ equals

- A. 18.25 B. 9.26 C. 13.31 D. 19.25 E. None correct

3. $1.8 - 0.25$ equals

- A. 1.55 B. 1.65 C. 1.3 D. 0.7 E. None correct

4. 0.15×4.2 equals

- A. 0.63 B. 6.3 C. 630 D. 0.063 E. None correct

5. $3.64 \div 0.7$ equals

- A. 0.52 B. 5.2 C. 52 D. 520 E. None correct

6. $1\frac{2}{3} + 2\frac{5}{6}$ equals

- A. $3\frac{7}{9}$ B. $4\frac{1}{2}$ C. $3\frac{1}{2}$ D. $4\frac{1}{6}$ E. None correct

7. $3\frac{2}{5} - 1\frac{1}{2}$ equals

- A. $2\frac{1}{3}$ B. $2\frac{1}{10}$ C. $1\frac{9}{10}$ D. $4\frac{9}{10}$ E. None correct

8. $\frac{4}{5} \times 3\frac{1}{3}$ equals

- A. $3\frac{4}{15}$ B. $1\frac{13}{15}$ C. $2\frac{2}{3}$ D. $\frac{3}{25}$ E. None correct

9. $2\frac{2}{5} \div 1\frac{1}{2}$ equals
A. $1\frac{3}{5}$ B. $2\frac{1}{2}$ C. $3\frac{3}{5}$ D. $\frac{5}{8}$ E. None correct
10. $\frac{60}{84}$, reduced to lowest terms, is
A. $\frac{15}{21}$ B. $\frac{30}{42}$ C. $\frac{5}{7}$ D. $\frac{1}{2}$ E. None correct
11. Which digit in 64,327.891 is in the thousands place?
A. 6 B. 4 C. 9 D. 1 E. None correct
12. $2\frac{1}{2}$ million is
A. 2,500,000 B. 2,500,000,000
C. $2,000,000\frac{1}{2}$ D. 2,200,000 E. None correct
13. Which of these equals 1.2 m?
A. 1200 cm B. 0.12 km C. 1200 mm D. 12 m E. None correct
14. Which is the most reasonable measure for the length of a bicycle?
A. 2 mm B. 2 m C. 2 cm D. 2 km
15. 40% is NOT equivalent to
A. 0.4 B. $\frac{2}{5}$ C. $\frac{40}{100}$ D. 0.04

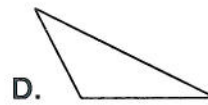
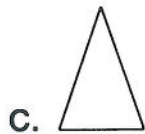
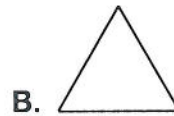
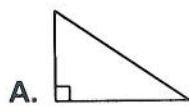
16. $10^3 \cdot 10^4$ equals
 A. 10^{12} B. 10^7 C. 1 million D. 1200 E. None correct
17. $\sqrt{199}$ is between
 A. 99 and 100 B. 9 and 10
 C. 14 and 15 D. 19 and 20 E. None correct
18. Twenty-five thousandths may be written as
 A. 0.25 B. 25,000 C. 20,005 D. 20.005 E. None correct
19. Estimate the sum of 17.36 and 8.7 by rounding each decimal number to the nearest whole number before adding.
 A. 9 B. 17 C. 25 D. 26 E. None correct
20. Which set of numbers is arranged in order from least to greatest?
 A. 33%, $\frac{1}{3}$, 0.3 B. 0.3, $\frac{1}{3}$, 33%
 C. 0.3, 33%, $\frac{1}{3}$ D. $\frac{1}{3}$, 0.3, $3\frac{1}{3}$ E. None correct
21. What number solves this proportion? $\frac{8}{12} = \frac{12}{n}$
 A. 8 B. 16 C. 18 D. 24 E. None correct
22. The ratio of boys to girls in the class was 2 to 3. If there were 18 girls in the class, how many students were in the class?
 A. 12 B. 24 C. 27 D. 30 E. None correct

23. The average age of three people is 25. If two of the people are 22, how old is the third person?
- A. 23 B. 25 C. 28 D. 31 E. None correct
24. Ten children measured how high they could jump. The results they recorded, in inches, were as follows:
- 8, 9, 8, 6, 8, 12, 9, 10, 11, 16
- What is the median of these measures?
- A. 8 in. B. 9 in. C. 9.5 in. D. 10 in. E. None correct
25. One white marble, two red marbles, and three blue marbles are in a bag. What is the probability of drawing a blue marble from the bag?
- A. $\frac{1}{6}$ B. $\frac{1}{3}$ C. $\frac{1}{2}$ D. $\frac{3}{5}$ E. None correct
26. If the price of an item is \$2.89 and the sales-tax rate is 8%, what is the total cost of the item including sales tax?
- A. \$2.97 B. \$3.12 C. \$3.17 D. \$23.12 E. None correct
27. What is the price per ounce of a 32-ounce box of cereal that costs \$4.16?
- A. 11¢/oz B. 12¢/oz C. 13¢/oz D. 16¢/oz E. None correct
28. A shirt regularly priced at \$36.00 was on sale for 25% off. What was the sale price?
- A. \$9.00 B. \$24.00 C. \$27.00 D. \$48.00 E. None correct

29. Emma correctly answered 21 of the 25 questions. What percent of the questions did Emma answer correctly?
- A. 21% B. 84% C. 16% D. 96% E. None correct

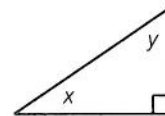
30. At a constant speed of 400 miles per hour, how far can an airplane fly in $2\frac{1}{2}$ hours?
- A. 600 miles B. 800 miles C. 650 miles D. 1000 miles E. None correct

31. Which of these triangles appears to be equilateral?



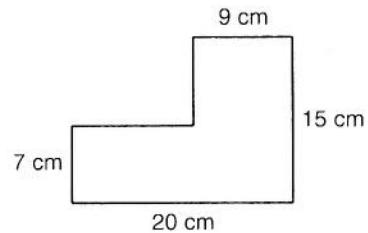
- E. None correct

32. If $\angle x$ measures 38° in this triangle, what is the measure of $\angle y$?



- A. 52° B. 62° C. 38° D. 142° E. None correct

33. What is the perimeter of this figure?
All angles are right angles.

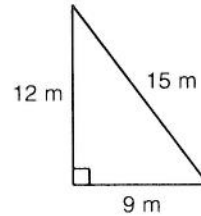


- A. 212 cm B. 67 cm C. 51 cm D. 70 cm E. None correct

34. If the radius of a bicycle tire is 10 inches, what is the tire's circumference? (Use 3.14 for π .)

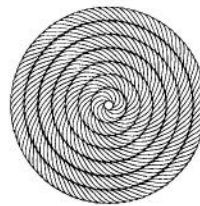
- A. 31.4 in. B. 62.8 in. C. 314 in. D. 20 in. E. None correct

35. What is the area of this triangle?



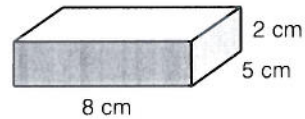
- A. 108 m² B. 54 m² C. 36 m D. 108 m E. None correct

36. The diameter of a circular braided rug is 8 feet. Which choice best approximates the area covered by the rug?



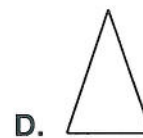
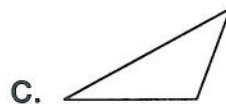
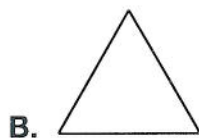
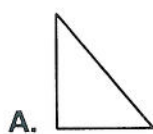
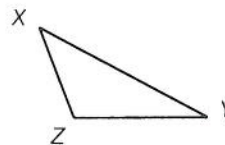
- A. 50 ft² B. 25 ft² C. 64 ft² D. 16 ft²

37. What is the volume of this small box?

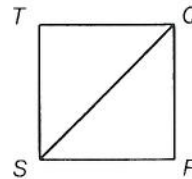


- A. 80 cm³ B. 40 cm³ C. 30 cm³ D. 15 cm³ E. None correct

38. Which triangle below appears to be similar to $\triangle XYZ$?



39. In rectangle $QRST$, which segment is parallel to \overline{QR} ?



- A. \overline{QS} B. \overline{QT} C. \overline{RS} D. \overline{TS} E. None correct

40. If $3^2 + 4^2 = c^2$, then which of these could be the value of c ?

- A. 5 B. 7 C. 25 D. 49 E. None correct

41. $(-6) + (-3) + (+2)$ equals

- A. -5 B. -7 C. -1 D. -11 E. None correct

42. If a is 3 and c is 12, then $4ac$ equals

- A. 19 B. 36 C. 4312 D. 144 E. None correct

43. $3[16 - 2(5 - 3)]$ equals

- A. 9 B. 35 C. 36 D. 44 E. None correct

44. The prime factorization of 24 may be written as

- A. $2^3 \cdot 3$ B. $2 \cdot 12$ C. $3 \cdot 8$ D. $6 \cdot 4$ E. None correct

45. $6(25)$ equals

- A. $6 \cdot 20 \cdot 5$ B. $6 \cdot 24 + 5$ C. $6 \cdot 20 + 5$ D. $6 \cdot 20 + 6 \cdot 5$

46. If $3m - 1 = 35$, then m equals
 A. 6 B. 12 C. 34 D. 36 E. None correct

47. Which of these inequalities states that the square root of 9 is less than 2 squared?
 A. $\sqrt{9} < 2^2$ B. $\sqrt{9} > 2^2$ C. $9^2 < \sqrt{2}$ D. $9^2 > \sqrt{2}$ E. None correct

48. $(-10)(-10)$ equals
 A. -100 B. 100 C. -20 D. 0 E. None correct

49. Find the missing number in the function table.

x	3	5	8
$2x - 3$	3	7	?

A. 10 B. 11 C. 12 D. 13 E. None correct

50. The coordinates of three vertices of a rectangle are $(-2, 3)$, $(4, 3)$, and $(4, -3)$. The coordinates of the fourth vertex are
 A. $(-2, -3)$ B. $(4, -2)$ C. $(-2, 4)$ D. $(-3, 3)$ E. None correct