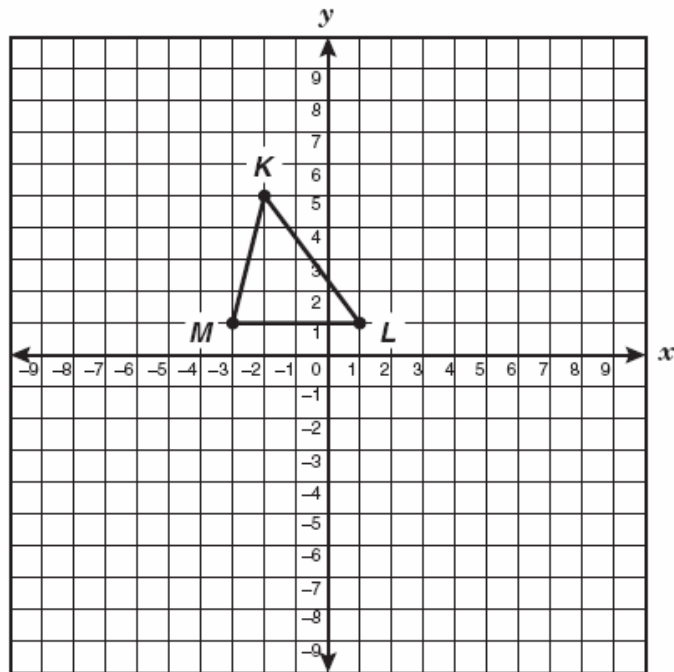


GRADE 7 CMT Practice Test #3

DIRECTIONS

Read each question and choose the best answer. Circle the letter for the answer you have chosen.

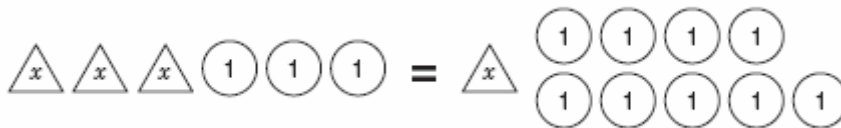
1. Kimberly bought a dozen daisies for \$3.75. Which is closest to the amount Kimberly paid for each daisy?
A. \$0.25 B. \$0.29 C. \$0.31 D. \$0.38
2. A farmer knows the length and width of his rectangular pasture. He also knows how many pounds of fertilizer to spread per square yard. What additional information does the farmer need to know in order to determine the number of bags of fertilizer he should buy?
A. The type of grass in his pasture
B. The number of bags of fertilizer his truck will hold
C. The price of each bag of fertilizer
D. The number of pounds of fertilizer in each bag
3. Shane drew a triangle on the coordinate plane shown below.



Which of the following best represents the coordinates of the vertices of triangle KLM?

- | | |
|-----------------------------|-----------------------------|
| A. (-2, 5), (1, 1), (-3, 1) | B. (-2, 5), (1, 1), (1, -3) |
| C. (5, -2), (1, 1), (1, -3) | D. (5, -2), (1, 1), (-3, 1) |

4. Which situation is **BEST** represented by the equation $x - 4 = 16$?
- A. Anne picked 16 apples and ate $\frac{1}{4}$ of them. What is x , the number of apples she had left?
- B. Moises ran for 16 minutes and walked for 4 minutes. What is x , the difference between the time he spent running and the time he spent walking?
- C. Jordan spent \$4 of his allowance and had \$16 left. What is x , the total amount of Jordan's allowance?
- D. Cecely has hit 4 of the last 16 balls pitched. What is x , the total number of balls pitched?
5. Martha needs to cut a piece of glass for her table. The table is in the shape of a regular hexagon. The glass should measure $1\frac{1}{2}$ feet on each side. What is the perimeter of the piece of glass?
- A. 12 ft B. 9 ft C. 18 ft D. 7.5 ft
6. Lucy works at a bank and earns \$9.75 per hour. If Lynne works 35 hours each week, which expression could be used to determine her total earnings for 1 year?
- A. 9.75×35 B. 9.75×52 C. $9.75 \times 35 \times 52$ D. $9.75 \times 35 \times 12$
7. The equation $3x + 3 = x + 9$ is modeled below.



What value of x makes the equation true?

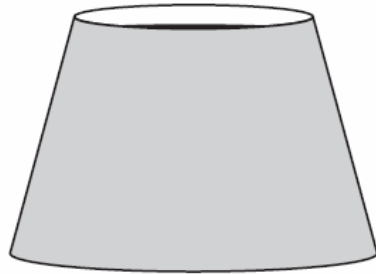
- A. $x = 3$ B. $x = 6$ C. $x = 12$ D. $x = 4$
8. Andre bought 15 party hats priced at 3 for \$0.65 and 56 noisemakers priced at 7 for \$1.25. What was the total cost of the hats and noisemakers, not including tax?
- A. \$9.75 B. \$8.75 C. \$10.70 D. \$13.25
9. A triangle with two congruent sides and an angle of 104° is _____.
- A. isosceles and right B. isosceles and obtuse
 C. isosceles and acute D. scalene and obtuse

10. Lisette is trying to figure out the heights of 3 people. Here are the facts she knows.
- The sum of the heights of these 3 people is 17 feet 5 inches.
 - The shortest person is 5 feet 4 inches tall.
 - The other 2 people differ in height by 3 inches.

How tall is the tallest person?

- A. 5 feet 4 inches B. 5 feet 11 inches
 C. 6 feet 2 inches D. 12 feet 1 inch

11. Brenda wants to attach a string of beads along the circular bottom edge of the lamp shade shown below. The diameter of the bottom of the lamp shade is 16 centimeters.



About how many centimeters long should Brenda make the string of beads?

- A. 25 cm B. 50 cm C. 79 cm D. 201 cm

12. Mrs. Jefferson said that $\frac{1}{8}$ of the faculty at Long High School had attended the school as teenagers. Which decimal and percent are equivalent to $\frac{1}{8}$?

- A. 0.18, 18% B. 0.125, 12.5% C. 1.8, 180% D. 1.25, 125%

13. Randy and his 5 friends played a card game in which the person with the lowest final score wins. The table below shows the final scores for all the players except Erica.

Card Game

Player	Score
Randy	121
Erica	
John	119
Sam	107
Dawn	123
Maya	112

If Erica won the game and the range of the scores was 17, what was Erica's score?

- A. 104 B. 106 C. 140 D. 124

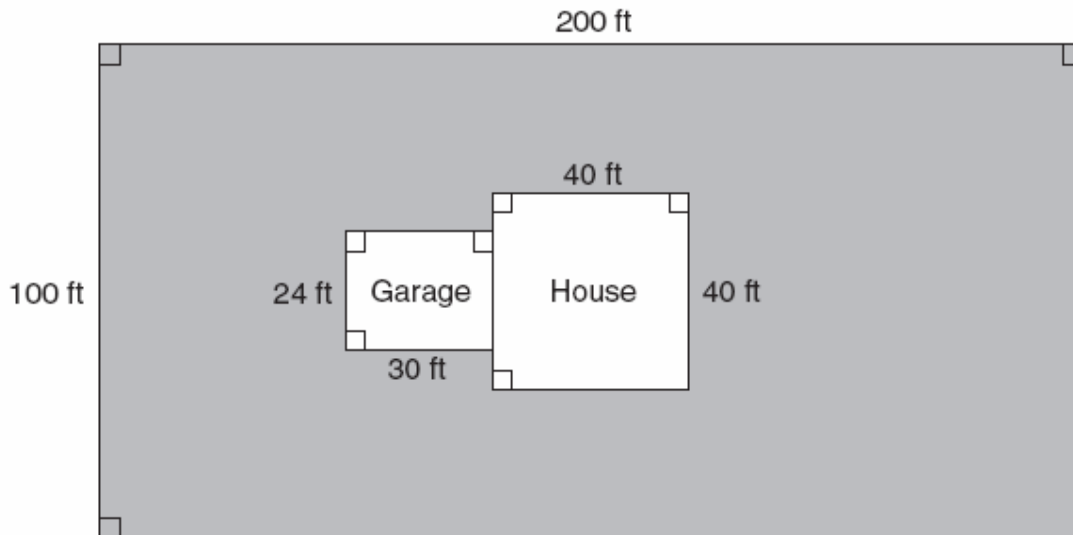
14. A school district hired a speaker to present some information for career day to the middle school students in the district. The speaker used the following information to estimate the total number of students who will attend the presentation.

- There are 3 middle schools.
- There are 20–25 homeroom classes in each middle school.
- There are 25–30 students in each homeroom.

What is the best estimate of the total number of students who will attend the presentation?

- A. 750 B. 1,125 C. 1,800 D. 2,500

15. A pest-control company was hired to spray the lawn represented by the shaded region shown below.



What was the area in square feet that was sprayed?

- A. 19,280 ft² B. 20,000 ft² C. 37,680 ft² D. 17,680 ft²

16. Of the 850 students at Brown Middle School, 38% are in the school band. How many students are in the school band?

- A. 32 B. 527 C. 323 D. 812

17. Jane ran in 3 races. The distances she ran in the races were 5 kilometers, 4.25 kilometers, and 5.5 kilometers. How many meters did Jane run in the 3 races altogether?

- A. 1,475 m B. 14,750 m C. 48,500 m D. 15,000 m

18. The table shows several countries and the portion of their population that is under age 15.

Populations

Country	Portion of Population Under Age 15
Chad	47.8%
United States	$\frac{1}{5}$
Uganda	$\frac{1}{2}$
Benin	$\frac{23}{50}$
Ethiopia	47.3%

Which of the following lists the countries in order from least to greatest portion of the population under age 15?

- A. United States, Ethiopia, Benin, Chad, Uganda
B. Uganda, United States, Benin, Ethiopia, Chad
C. United States, Benin, Ethiopia, Chad, Uganda
D. Uganda, Chad, Ethiopia, Benin, United States
19. Mrs. Sheldon made lunch for her family. She made tuna sandwiches and chicken sandwiches. She made coconut cookies and oatmeal cookies. Which list shows all possible outcomes if a person picked one sandwich at random and one cookie at random?
- A. (Tuna, coconut), (chicken, oatmeal)
B. (Tuna, coconut), (chicken, coconut), (tuna, oatmeal), (chicken, oatmeal)
C. (Tuna, chicken), (tuna, coconut), (tuna, oatmeal), (chicken, tuna), (chicken, coconut), (chicken, oatmeal)
D. (Tuna, oatmeal), (chicken, oatmeal), (tuna, chicken), (coconut, oatmeal)
20. Patrice records the number of calories she burns while exercising each day, as shown below.
- Day 1: 250 calories
Day 2: 350 calories
Day 3: 400 calories
Day 4: 250 calories
Day 5: 300 calories

How many calories must Patrice burn on the sixth day to have a mean of 300 calories burned for the 6 days?

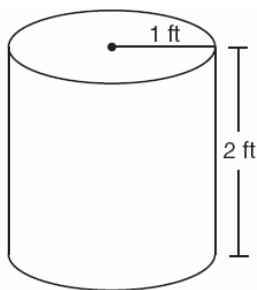
- A. 0 calories B. 150 calories C. 250 calories D. 310 calories

21. Pamela wants to find the perimeter of the isosceles trapezoid shown below.



Which equation could Pamela use to find P , the perimeter of the trapezoid?

- A. $P = 8 \cdot 14 + 5$ B. $P = 8 + 14 + (2 \cdot 5)$
C. $P = (8 + 14) \cdot 4 \div 2$ D. $P = 8 + 5 + 14 + 4$
22. For storage Mrs. Cho uses cylindrical containers like the one shown below.



If Mrs. Cho uses 2 of these containers, which is closest to the total volume of both?

- A. 13 cubic ft. B. 6 cubic ft. C. 8 cubic ft. D. 16 cubic ft.
23. Laura is planning to build a model of a train using a scale where 2 inches represents 25 feet. If the train is 60 feet long, what is the length in inches that Laura should build the model of the train?
- A. 9.6 in. B. 2.4 in. C. 4.8 in. D. 1.2 in.
24. What is the value of the expression below? $10 + 7 \cdot 8^2 \div 2$
- A. 61 B. 234 C. 544 D. 66
25. A 10-ounce box of cereal costs \$2.98, and a 20-ounce box of the same cereal costs \$5.49. Which statement will help a shopper decide which box is the better buy?
- A. The 10-ounce box is the better buy because it is less expensive per ounce.
B. The 10-ounce box is the better buy because \$2.98 is about \$3, and \$3 goes into \$5.49 about 3 times.
C. The 20-ounce box is the better buy because it is more expensive per ounce.
D. The 20-ounce box is the better buy because two of the 10-ounce boxes cost more than one 20-ounce box.