1   What is the value of $(5^2 - 10) \div 5 \times 2^3$?

   A   0

   B   18

   C   24

   D   40

2   Paul had a job during his summer vacation. He earned $8.75 per hour. He worked 20 hours per week for 8 weeks. How much money did Paul earn?

   A $1,200

   B $1,400

   C $1,600

   D $1,800

3   Which expression is equivalent to $25x - 10y$?

   A $5(5x - 2y)$

   B $5(5x - 10y)$

   C $5(20x - 5y)$

   D $5(20x - 10y)$

4   Jim and Ed are debating the answer to the equation $\frac{2}{3}m = \frac{1}{4}$.

- Jim states that m is equal to $2\frac{2}{3}$.

- Ed states that m is equal to $\frac{3}{8}$.

Which statement is true?

A   Jim's answer of $2\frac{2}{3}$ is correct because he divided $\frac{2}{3}$ by $\frac{1}{4}$ to get his answer.

B   Jim's answer of $2\frac{2}{3}$ is correct because he divided $\frac{1}{4}$ by $\frac{2}{3}$ to get his answer.

C   Ed's answer of $\frac{3}{8}$ is correct because he multiplied $\frac{1}{4}$ by $\frac{2}{3}$ to get his answer.

D   Ed's answer of $\frac{3}{8}$ is correct because he divided $\frac{1}{4}$ by $\frac{2}{3}$ to get his answer.

5   Jamal will cut a piece of wood that is $2\frac{1}{2}$ feet long into $\frac{1}{4}$-foot sections. How many sections will result?

A   5

B   8

C   10

D   12

Go to the next page.

6   Tonya pays $300 each month to rent an office where she earns $25 per hour tutoring students. Which equation represents Tonya's profit, y, for working x hours?

A $y = 25 + 300x$

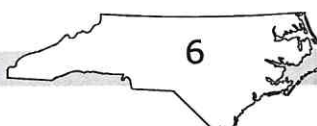B $y = 25x + 300$

C $y = 25 - 300x$

D $y = 25x - 300$

7   The table represents the number of runs scored by several baseball teams during a season.

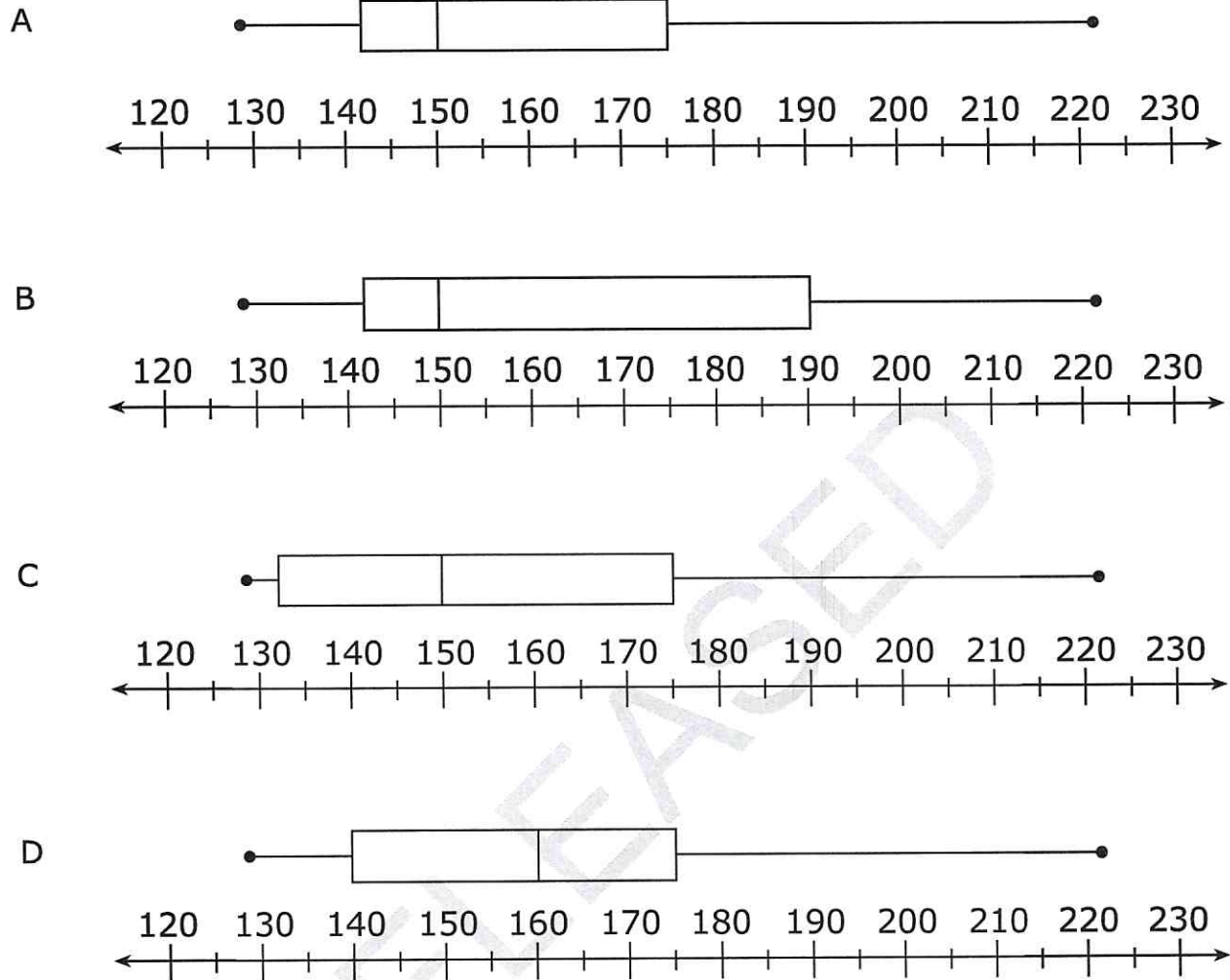| Team	Total Runs
Cleveland	221
Atlanta	197
Pittsburgh	191
Chicago	175
Oakland	153
Los Angeles	150
Milwaukee	150
Detroit	150
Kansas City	148
Boston	147
St. Louis	142
Toronto	138
Philadelphia	132
New York	129

Which box plot correctly represents the data from the table?

Answer choices A, B, C, and D are on the following page.

A

120 130 140 150 160 170 180 190 200 210 220 230

B

120 130 140 150 160 170 180 190 200 210 220 230

C

120 130 140 150 160 170 180 190 200 210 220 230

D

120 130 140 150 160 170 180 190 200 210 220 230

8   Which ordered pair represents a reflection of the point (⁻3, 5) across the *y*-axis?

A   (⁻3, 5)

B   (⁻3, ⁻5)

C   (3, ⁻5)

D   (3, 5)

Go to the next page.

9   Which statement is true?

    A $0.04 < 0.004$

    B $8.2 < 8.02$

    C $7.\overline{6} < 7.67$

    D $0.0\overline{3} < 0.003$

10   Andy runs the same number of miles, x, every week. His total distance run each week is less than 60 miles. Which inequality represents how many miles Andy runs each week?

    A $x \geq 60$

    B $x \leq 60$

    C $x > 60$

    D $x < 60$

Go to the next page.

Questions 11 through 15 require you to write your answers in the boxes provided on your answer sheet. A sample grid is shown below each question, but your answer must be properly entered on the answer sheet to be scored. Write only one number or symbol in each box and fill in the circle in each column that matches what you have printed. Fill in only one circle in each column.

11 What is the value of $\left(5r + \frac{1}{5}\right)^2$ when $r = 0$?

Only 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, . , -, and / are allowed in your answer. Answers that are mixed numbers must be entered as an improper fraction or decimal.
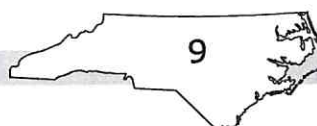
12 During a weekend, the manager of a mall gave away gift cards to every 80th person who visited the mall.

- On Saturday, 1,210 people visited the mall.
- On Sunday, 1,814 people visited the mall.

How many people received a gift card?

Only 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, . , -, and / are allowed in your answer. Answers that are mixed numbers must be entered as an improper fraction or decimal.

Go to the next page.

13   Jenny bought gas for her car.

      •   Gas cost $3.45 per gallon.

      •   Jenny bought 12.2 gallons.

What was the total cost for Jenny's gas?

Express the answer as dollars.cents.

Only 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, . , -, and / are allowed in your answer.
Answers that are mixed numbers must be entered as an improper fraction or
decimal.

14   What is the value of $1,608 \div 10^3$?

Only 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, . , -, and / are allowed in your answer.
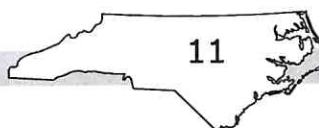Answers that are mixed numbers must be entered as an improper fraction or
decimal.

15 Steve has $2\frac{1}{2}$ cups of flour. One of his recipes requires $\frac{1}{8}$ cup of flour. What is the maximum number of times Steve can complete the recipe?

Only 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, . , -, and / are allowed in your answer.
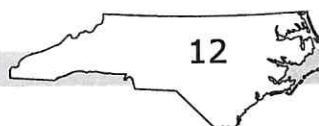Answers that are mixed numbers must be entered as an improper fraction or decimal.

This is the end of the calculator inactive test questions.

Directions:

1. Look back over your answers for the calculator inactive questions. You will not be able to go back and work on these questions once you are given a calculator.

2. Raise your hand to let your teacher know you are ready to begin the calculator active test questions.

3. Do not begin work on the calculator active test questions until your teacher has given you a calculator.

STOP

Questions 16 through 20 require you to write your answers in the boxes provided on your answer sheet. A sample grid is shown below each question, but your answer must be properly entered on the answer sheet to be scored. Write only one number or symbol in each box and fill in the circle in each column that matches what you have printed. Fill in only one circle in each column.

16 An airplane travels at a constant speed of 320 miles per hour. How far, in miles, will the airplane travel in 15 minutes?

Only 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, . , -, and / are allowed in your answer. Answers that are mixed numbers must be entered as an improper fraction or decimal.

17 Ryan is building a tree house. It will take $85\frac{1}{4}$ hours to complete. He can work on the tree house $15\frac{1}{2}$ hours each week. To the nearest tenth, how many weeks will it take Ryan to complete the tree house?

Only 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, . , -, and / are allowed in your answer. Answers that are mixed numbers must be entered as an improper fraction or decimal.

Go to the next page.

18   What is the value of x when $\frac{1}{3}x = 9\frac{1}{3}$?

Only 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, . , -, and / are allowed in your answer.
Answers that are mixed numbers must be entered as an improper fraction or
decimal.

19   Jenny has finished 12 of the 20 lessons in her piano book. Liam has finished the
same percent of lessons from his piano book. His book contains 30 lessons. How
many lessons has Liam finished?

Only 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, . , -, and / are allowed in your answer.
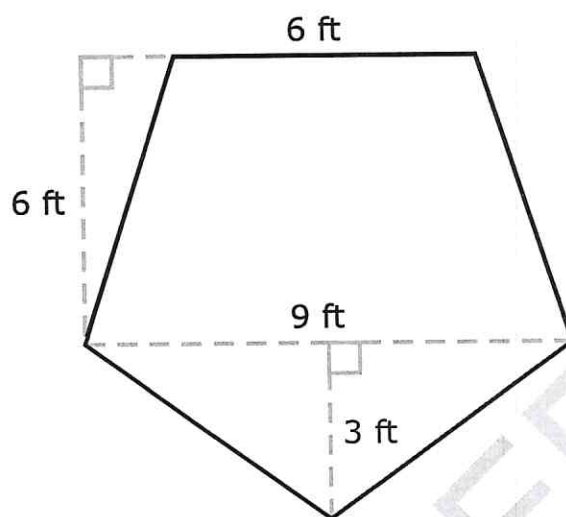Answers that are mixed numbers must be entered as an improper fraction or
decimal.

20   Sam is using the expression $\frac{m}{8n}$ in class. What is the value of the expression

when $m = 4$ and $n = \frac{1}{2}$?

Only 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, . , -, and / are allowed in your answer.
Answers that are mixed numbers must be entered as an improper fraction or
decimal.

Go to the next page.

21   What is the area of the pentagon shown below?

6 ft

6 ft

9 ft

3 ft

A   27 square feet

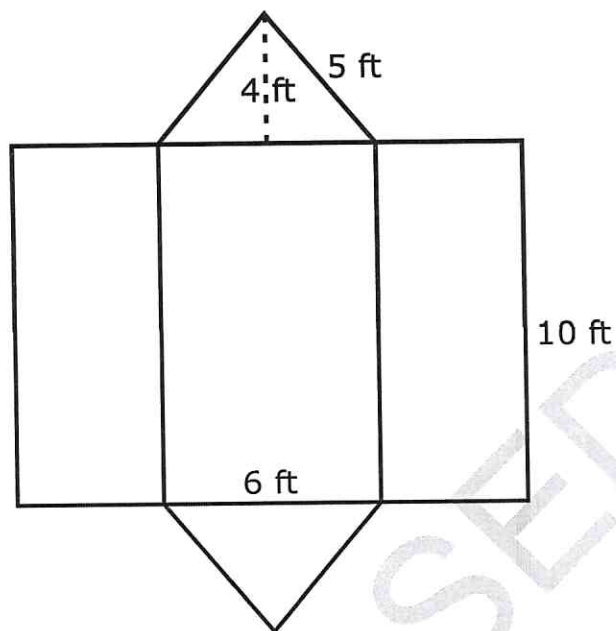B   58.5 square feet

C   85.5 square feet

D   117 square feet

22   A net of a three-dimensional figure is shown.

What is the surface area of the three-dimensional figure?

A   184 ft²

B   180 ft²

C   150 ft²

D   125 ft²

Go to the next page.