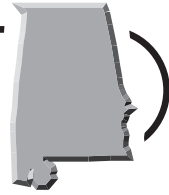


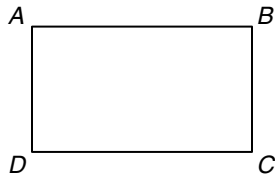
Sample Test

Test Practice



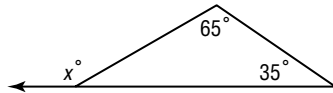
Read each question and choose the best answer. Then write the letter for the answer you have chosen in the blank at the right of each question.

- 1 The perimeter of the rectangle shown below is $8x + 4$. The length of side DC is $2x + 2$. What is the length of side AD ? **VII-4** 1 _____



- A $2x$
- B $3x$
- C $6x + 2$
- D $3x + 1$

- 2 What is the value of x ? **VII-1** 2 _____



- E 35°
- F 65°
- G 80°
- H 100°

- 3 Simplify: $(x - 8)(x + 8)$ **I-3** 3 _____

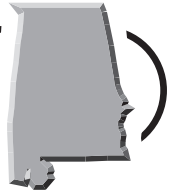
- A $x^2 - 64$
- B $x^2 - 16x - 64$
- C $x^2 + 16x + 64$
- D x^2

- 4 Factor: $5x^2 - 5$ **I-4** 4 _____

- E $5(x - 1)$
- F $5(x + 1)$
- G $5(x + 1)(x - 1)$
- H $5(x - 1)(x - 1)$

Sample Test

Test Practice (continued) _____



Read each question and choose the best answer. Then write the letter for the answer you have chosen in the blank at the right of each question.

5 Solve: $\frac{x-3}{4} = \frac{2x-1}{5}$ II-1

5 _____

A $-\frac{19}{3}$

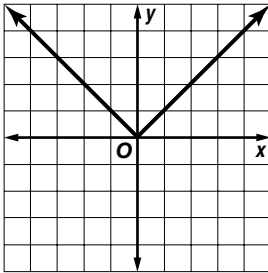
B $-\frac{11}{3}$

C $-\frac{19}{13}$

D $-\frac{11}{13}$

6 Which of these equations represents the graph below? V-4

6 _____



E $y = |x|$

F $y = x^2$

G $y = \sqrt{x}$

H $y = x$

7 Which of these equations represents the data in the table? III-1

7 _____

x	y
2	10
5	22
-3	-10

A $y = x + 8$

B $y = \frac{1}{2}x + 9$

C $y = 2x + 6$

D $y = 4x + 2$

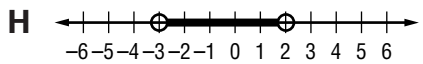
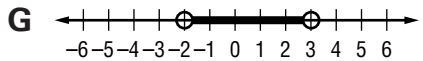
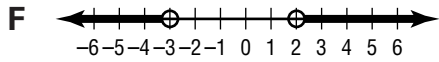
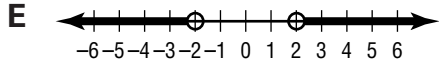
Sample Test

Test Practice (continued)



Read each question and choose the best answer. Then write the letter for the answer you have chosen in the blank at the right of each question.

8 Which of these graphs represents the solution of $-8 < 3x - 2 < 7$? **V-3** **8** _____



9 Simplify: $4w - 2z - (w + 3z)$ **I-1** **9** _____

A $-5w - 5z$

B $3w - 5z$

C $3w + z$

D $4w - 5z$

10 What is the mode of this set of data? **VII-5** **10** _____

4, 6, 9, 4, 2, 4, 6

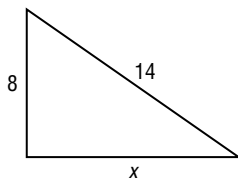
E 9

F 6

G 4

H 2

11 What is the value of x in the right triangle below? **VII-2** **11** _____



A $2\sqrt{33}$

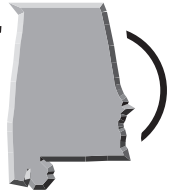
B $2\sqrt{3}$

C 10

D 6

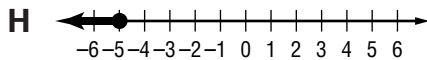
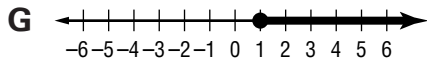
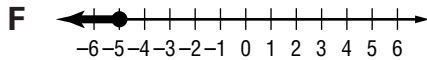
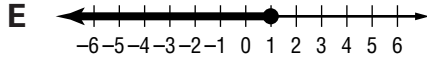
Sample Test

Test Practice (continued) _____



Read each question and choose the best answer. Then write the letter for the answer you have chosen in the blank at the right of each question.

- 12** Which of these graphs represents the solution of $x - 3 \leq -2$? **V-3** **12** _____



- 13** What is the solution of the following system of linear equations? **II-3** **13** _____

$$y = 2x$$

$$4x - y = 10$$

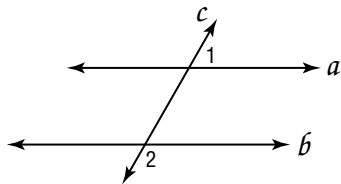
A $\left(\frac{5}{3}, \frac{10}{3}\right)$

B $(5, 10)$

C $(-5, -10)$

D $(-2, -4)$

- 14** Given: $a \parallel b$, $m\angle 1 = 60^\circ$. What is $m\angle 2$? **VII-1** **14** _____



E 30°

F 40°

G 60°

H 120°

- 15** Solve: $-x + 4 = -5x + 16$ **II-1** **15** _____

A 4

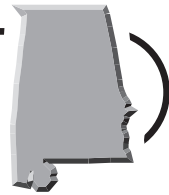
B 3

C -3

D -4

Sample Test

Test Practice (continued)



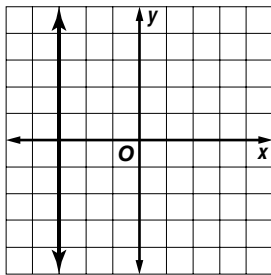
Read each question and choose the best answer. Then write the letter for the answer you have chosen in the blank at the right of each question.

- 16** Nick earned scores of 85, 90, 82, and 73 on his first four history tests. If **16** _____

Nick wants his mean test score to be 86 after five tests, what test score must he earn on his fifth test? **VII-5**

- E** 100 **F** 90
G 80 **H** 70

- 17** What is the equation of the line shown in the graph below? **V-1** **17** _____



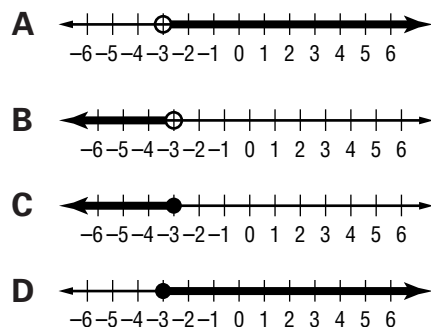
- A** $y = -3$ **B** $y = -x$
C $y = x$ **D** $x = -3$

- 18** If a circular rug has a diameter of 8 feet, what is the area of the rug to the nearest square foot? **IV-1** **18** _____

Use $A = \pi r^2$ and $\pi = 3.14$.

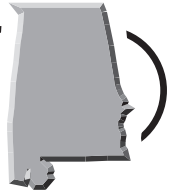
- E** 25 square feet
F 50 square feet
G 226 square feet
H 452 square feet

- 19** Which of these graphs represents the solution of $x > -3$? **V-3** **19** _____



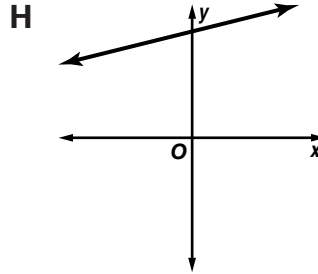
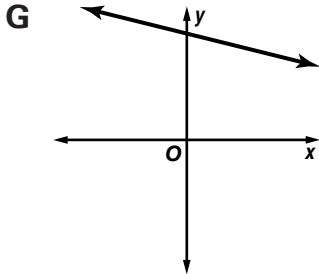
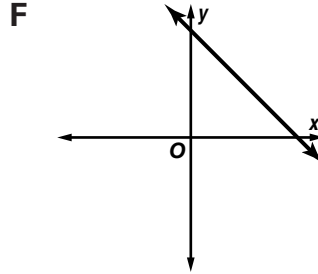
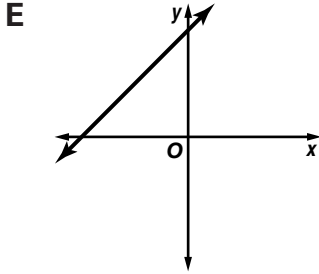
Sample Test

Test Practice (continued) _____



Read each question and choose the best answer. Then write the letter for the answer you have chosen in the blank at the right of each question.

- 20** Which of these graphs represents the equation $f(x) = -x + 4$? **V-1** **20** _____

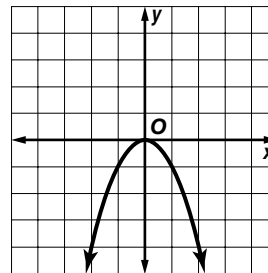


- 21** The measure of an angle in degrees is $4x$. Which of these represents the measure of its supplement? **VII-1** **21** _____

- A** $90 - 4x$
B $180 - 4x$
C $4x + 180$
D $4x + 90$

- 22** Which of these equations represents the graph at the right? **V-4** **22** _____

- E** $y = -x$
F $y = -|x|$
G $y = x$
H $y = -x^2$



- 23** The area of a rectangular patio is 216 square feet. The length is 6 feet less than twice the width. What is the width of the patio? **VII-8** **23** _____

- A** 9 feet
B 10 feet
C 12 feet
D 18 feet