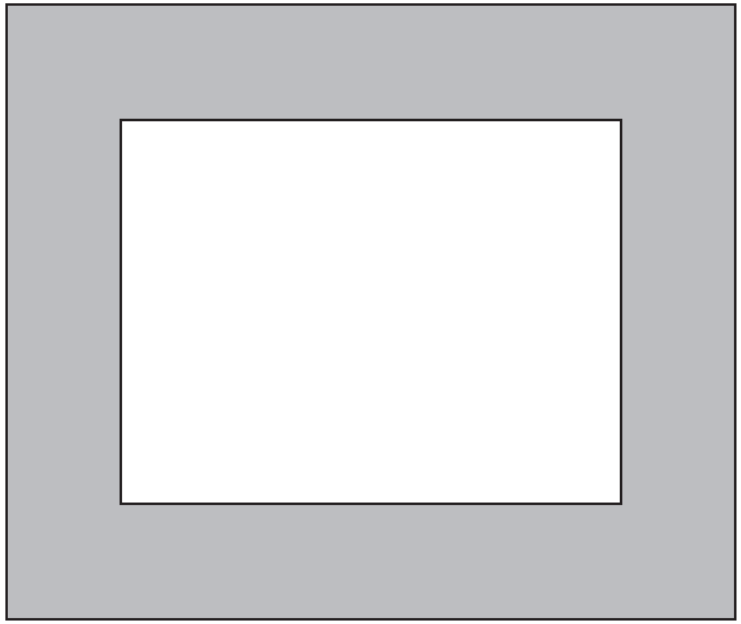
STAAR State of Texas Assessments of Academic Readiness **2016**

7.9C – 3 (R) **thirty seven X**

16 Two rectangles were used to form the following figure. Use the ruler provided to measure the dimensions of the figure to the nearest quarter of an inch.



Which measurement is closest to the area of the shaded region of this figure in square inches?

F 19 $in.^2$

G 11 $in.^2$

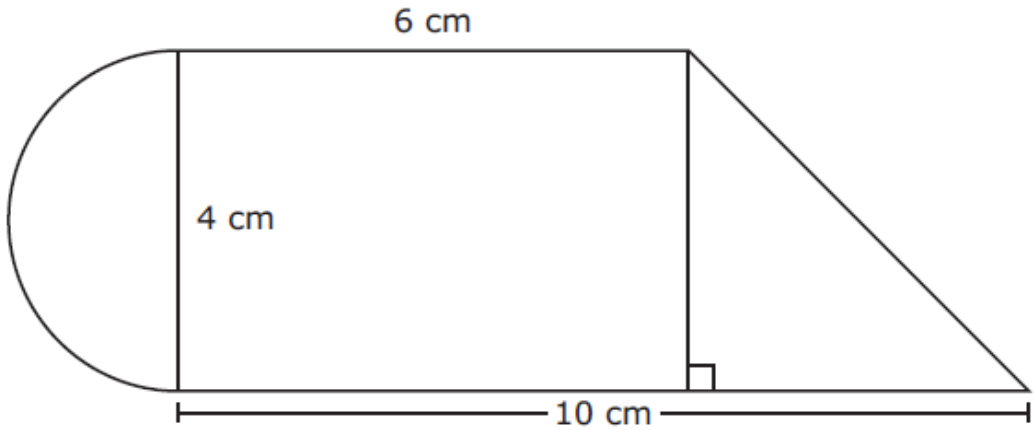
H 6 $in.^2$

J 8 $in.^2$

STAAR State of Texas Assessments of Academic Readiness **2016**

7.9C – 3 (R) **thirty eight Z**

35 Landon used a semicircle, a rectangle, and a right triangle to form the figure shown.



Which is the best estimate of the area of the figure in square centimeters?

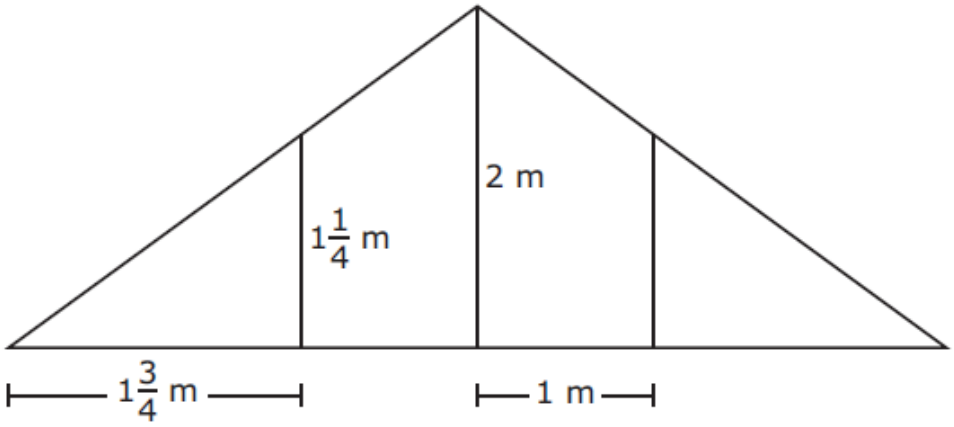
A 52 cm^2

B 44 cm^2

C 26 cm^2

D 38 cm^2

52 An advertising banner has four sections, as modeled below. Two sections are congruent trapezoids, and two sections are congruent right triangles.



Which measurement is the best estimate of the area of the banner in square meters?

F 6 m^2

G 15 m^2

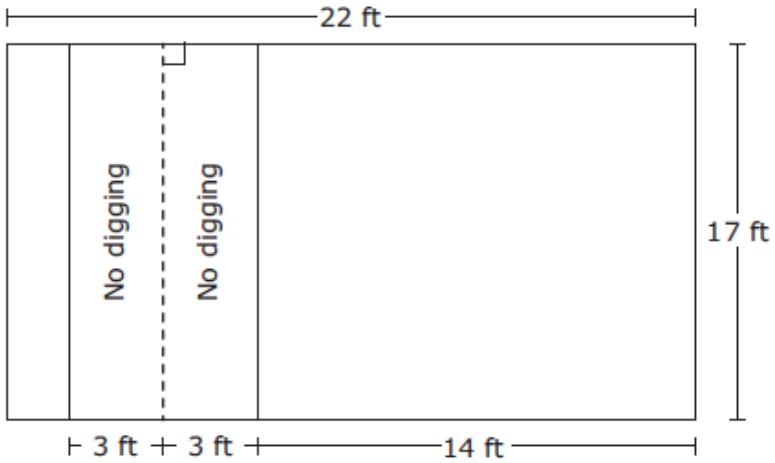
H 8 m^2

J 10 m^2

STAAR State of Texas Assessments of Academic Readiness **2017**

7.9C – 3 (R) **twenty seven W**

4 A utility line runs underground through Shayne's rectangular backyard. Shayne is not allowed to dig within 3 feet of the utility line. The diagram below shows the dimensions of Shayne's backyard in feet. The dashed line represents the utility line.



What is the area in square feet of the part of the backyard in which Shayne is allowed to dig?

F 272 ft^2

G 374 ft^2

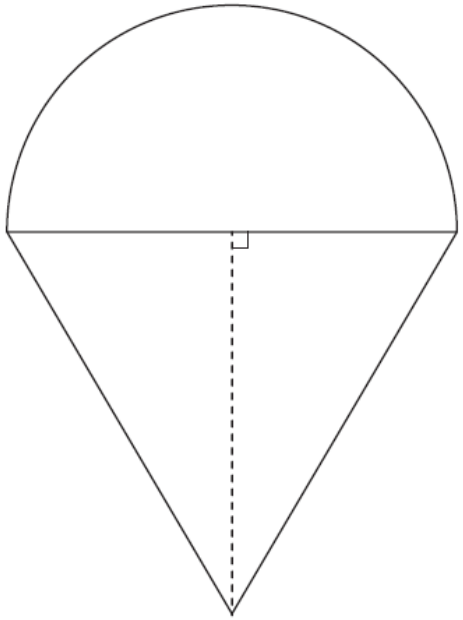
H 102 ft^2

J 59 ft^2

STAAR State of Texas Assessments of Academic Readiness **2017**

7.9C – 3 (R) **twenty eight Z**

19 A figure was created using a triangle and a semicircle. Use the ruler provided to measure the dimensions of the triangle and the semicircle to the nearest centimeter.



Which measurement is closest to the area of the figure in square centimeters?

A 78 cm^2

B 81 cm^2

C 106 cm^2

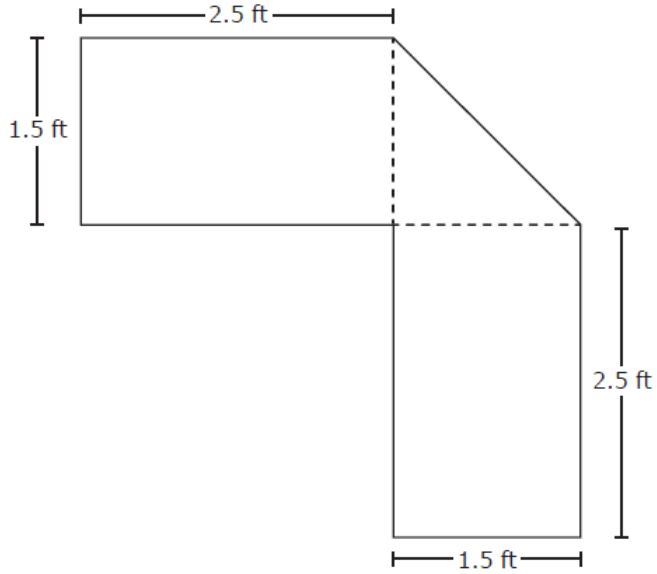
D 53 cm^2

2018

7.9C – 3 (R)

twenty nine X

14 The top surface of a desk is composed of 2 rectangles and a triangle. Some side lengths of the top surface of the desk are shown.



What is the area of the top surface of the desk in square feet?

F 9.75 ft^2

G 8.625 ft^2

H 7.50 ft^2

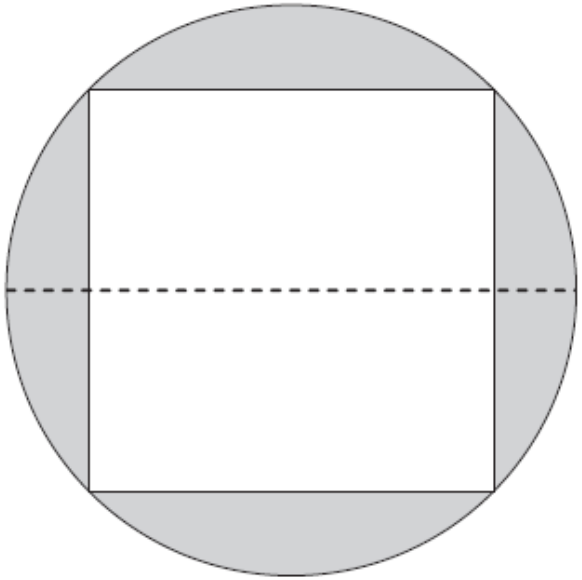
J 9.375 ft^2

2018

7.9C – 3 (R)

thirty Y

34 The figure shown was created by placing the vertices of a square on the circle. Use the ruler provided to measure the dimensions of the square and the circle to the nearest centimeter.



Which measurement is closest to the area of the shaded region of the figure in square centimeters?

F 17.6 cm^2

G 265.0 cm^2

H 29.5 cm^2

J 127.5 cm^2