Name: _____ **Class:** _____ **Date:** _____ **ID: A**

CAHSEE MG Quiz

Multiple Choice
Identify the choice that best completes the statement or answers the question.

1. How many centimeters are in 11 meters?

   A 11
   B 100
   C 110
   D 1,100

2. Grace reads 9 pages every 5 minutes. How long will it take Grace to read a book that is 81 pages long?

   A 0.5 hour
   B 0.75 hour
   C 1 hour
   D 1.25 hours

3. Monica can run 40 yards in 7 seconds. At that rate, how long would it take Monica to run 200 yards?

   A 35 seconds
   B 49 seconds
   C 72 seconds
   D 200 seconds

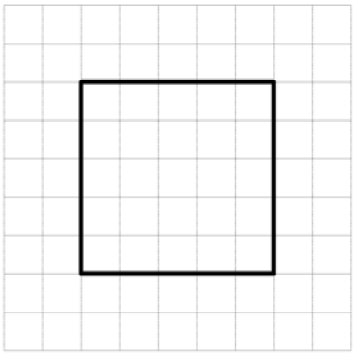
4. Sam is building a model airplane. The scale from the model to the actual airplane is 1 in.:20 ft. If the actual airplane is 200 feet, how long is the model?

   A 5 inches
   B 10 inches
   C 20 inches
   D 25 inches

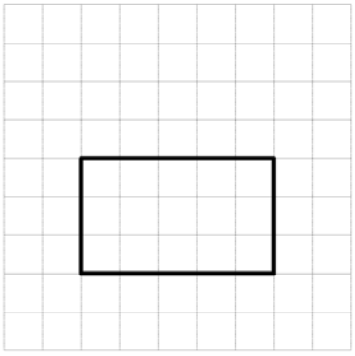
5. The key on a map is 1 inch:50 miles. On the map, the distance between San Francisco and Los Angles is 9 inches. How many miles apart are the two cities?

   A 400
   B 450
   C 475
   D 500

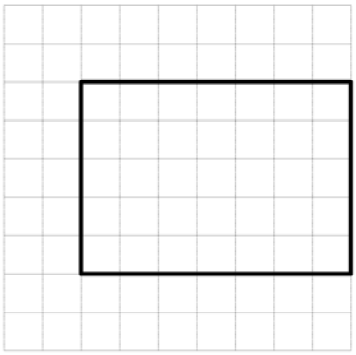
6. Tara is drawing a picture of her room. The dimensions of her room are 10 feet by 14 feet. Which of the following drawings would represent her room if one square equals 2 feet?



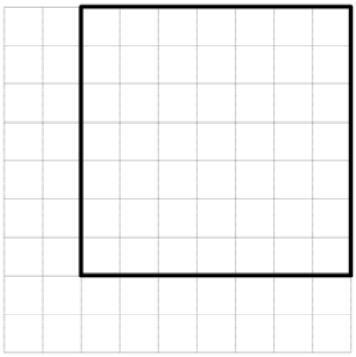
A



B



C



D

7. Lisa is comparing three cars. Car A gets 34 miles per gallon. Car B can travel 480 miles on 15 gallons of gas. Car C can travel 70 miles on 2 gallons of gas. Which car gets the best gas mileage?

   A Car A
   B Car B
   C Car C
   D all three have the same mileage

8. A local amusement park had an average of 5,500 visitors per day. What was the average number of visitors in a week?

   A 11,000
   B 27,500
   C 30,000
   D 38,500

9. Which of the following answers could *not* be the speed of an object?

   A 17 mi per hr
   B 8 ft per sec
   C 25 customers per day
   D 50 km per hr

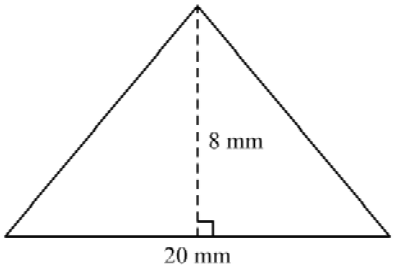
10. It takes a company 4 man-hours to finish an assignment. How many assignments can a 2-person crew finish in 12 hours?

    A 6
    B 8
    C 12
    D 24

11. What is the perimeter of a rectangle with a length of 9 cm and a width of 15 cm?

    A 24 cm
    B 48 cm
    C 72 cm
    D 135 cm

12. What is the area of the triangle below?

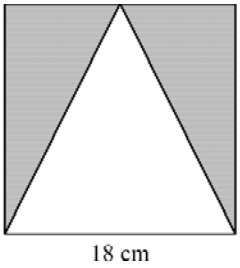


A $60\ mm^2$
B $80\ mm^2$
C $120\ mm^2$
D $160\ mm^2$

13. Find the volume of a rectangular prism with dimensions of 7 ft, 10 ft and 5 ft.

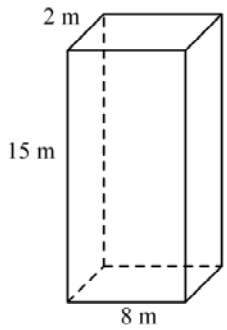
A $175\ ft^3$
B $310\ ft^3$
C $350\ ft^3$
D $450\ ft^3$

14. Jim drew a triangle in a square as shown below. What is the area of the shaded region?



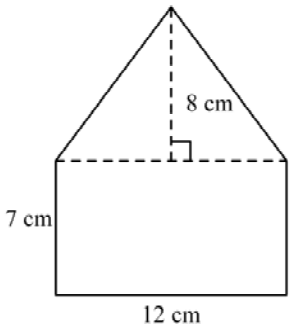
A $81\ cm^2$
B $162\ cm^2$
C $224\ cm^2$
D $324\ cm^2$

15. Find the volume of the figure shown below.



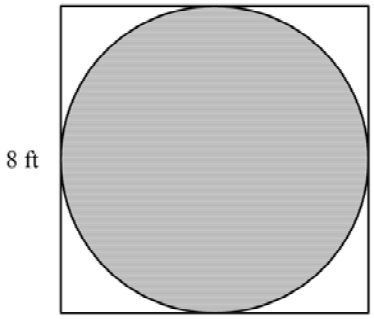
A 136 m^3
B 240 m^3
C 380 m^3
D 5,760 m^3

16. Find the area of the figure below.



A 90 cm^2
B 132 cm^2
C 140 cm^2
D 180 cm^2

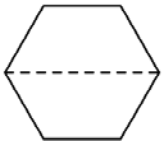
17. A circle is inscribed in a square as shown below.



What is the total area of the unshaded regions rounded to the nearest tenth? Use 3.14 for π.

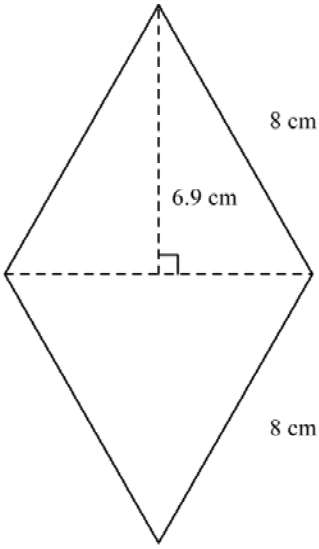
A 13.8 ft^2
B 16 ft^2
C 27.6 ft^2
D 68.5 ft^2

18. What two figures together form the hexagon below?



A two triangles
B two squares
C two trapezoids
D two rectangles

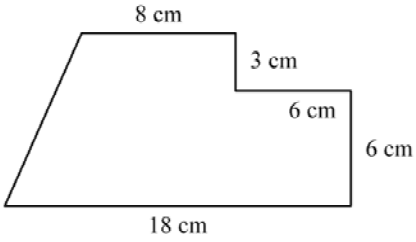
19. Erin put two equilateral triangles together as shown below.



What is the approximate area of the figure?

A 55.2 m^2
B 64 m^2
C 95.2 m^2
D 110.4 m^2

20. Find the area of the figure below.

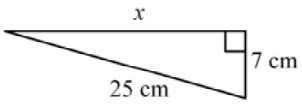


A 96 cm^2
B 126 cm^2
C 144 cm^2
D 152 cm^2

21. Which statement *best* describes congruent figures?

A same shape
B same size and shape
C same perimeter
D same area

22. What is the measure of the missing side in the right triangle below?

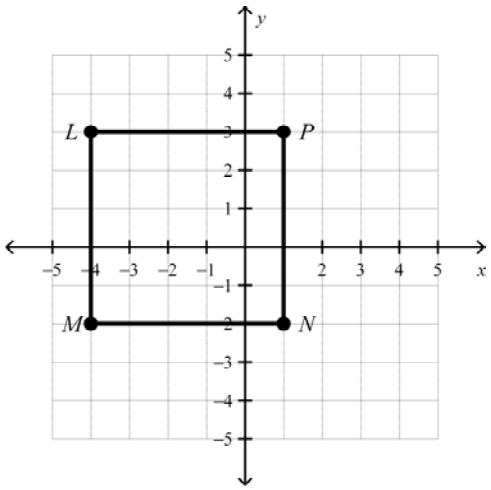


A 14 cm
B 18 cm
C 22 cm
D 24 cm

23. If $\triangle HJK \cong \triangle MNP$, what angle is congruent to $\angle J$?

A $\angle M$
B $\angle N$
C $\angle P$
D $\angle H$

Square *LMNP* is graphed below.



24. What are the coordinates of *M*?

A (1, –2)
B (–2, –4)
C (–4, 3)
D (–4, –2)

25. What is the area of *LMNP*?

A 5 units^2
B 12.5 units^2
C 20 units^2
D 25 units^2

26. If point *P* is reflected over the *x*-axis, what are the new coordinates of point *P*?

A (1, –2)
B (–3, 1)
C (1, –3)
D (–1, 3)

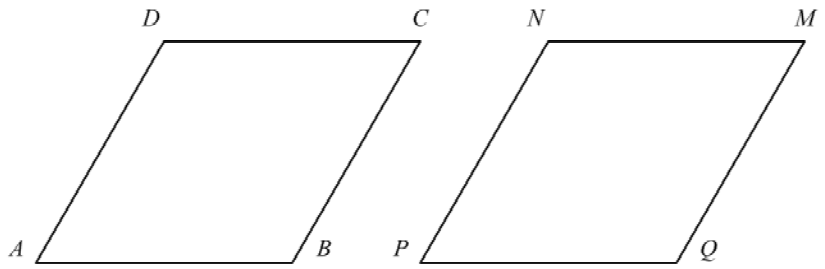
27. Angie knows the length of two legs of a right triangle are 5 cm and 12 cm. What is the length of the hypotenuse of the triangle?

A 5 cm
B 12 cm
C 13 cm
D 17 cm

28. Which of the following equations represents the Pythagorean theorem?

A $A = bh$
B $a^2 + b^2 = c^2$
C $A = \frac{1}{2}bh$
D $a^2 – b^2 = c^2$

29. In the figure below, quadrilateral *ABCD* is congruent to quadrilateral *PQMN*..



What side is congruent to $\overline{MN}$?

A $\overline{AB}$
B $\overline{BC}$
C $\overline{AB}$
D $\overline{CD}$

30. Rashed knows that two squares are congruent. He knows the perimeter of one square is 36 inches. What is the length of a side in the other square?

A 6 in.
B 9 in.
C 12 in.
D 18 in.