

# Level D - Form 1 - Applied Mathematics: Measurement

## Sample Question



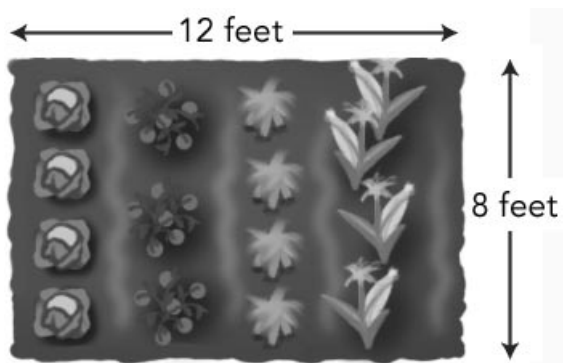
What time does this clock show?

- A 1:20
- B 1:23
- C 2:23
- D 2:43

## Level D - Form 1 - Applied Mathematics: Measurement

1. A movie begins at 7:10 and ends at 8:55.  
How long does the movie last?  
A 1 hour 35 minutes  
B 1 hour 40 minutes  
C 1 hour 45 minutes  
D 1 hour 55 minutes

The diagram shows the dimensions of Erica's garden. Study the diagram. Then do Numbers 2 through 4.



2. What is the area of the garden?  
F 20 feet  
G 40 feet  
H 84 square feet  
J 96 square feet

3. Erica wants to put a fence around the garden. How much fencing will she need?  
A 20 feet  
B 40 feet  
C 28 feet  
D 96 feet

4. Erica buys 60 ounces of fertilizer for her garden. How many pounds is that?

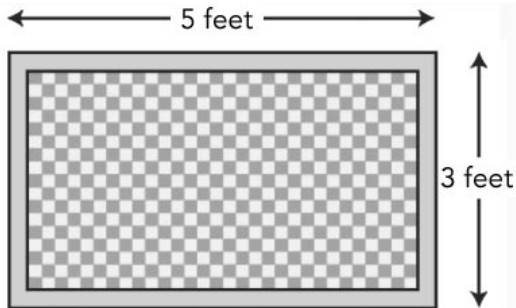
F  $1\frac{1}{2}$

G  $2\frac{3}{4}$

H  $3\frac{2}{3}$

J  $3\frac{3}{4}$

The diagram shows how the tile in Cahn's family room will look when he finishes installing it. Study the diagram. Then do Numbers 5 through 6.

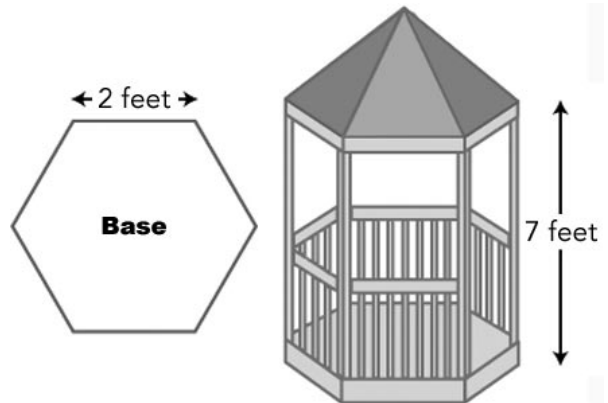


5. How many feet of the outside border will Chan need?
  - A 8 feet
  - B 15 feet
  - C 16 feet
  - D 6 feet
  
6. Chan wants to order a piece of molding about 8 feet long, but measurements on the order form are in meters. What length of molding should he order?

(1 meter = 3 feet 3 inches)



- F about 2 meters
- G about  $2\frac{1}{2}$  meters
- H about 3 meters
- J about  $3\frac{1}{2}$  meters

The diagram shows plans for a gazebo. All six sides of the gazebo are the same height and the same width. Study the diagram. Then do Numbers 7 through 8.




7. One side is completely open so people can enter the gazebo. The other sides are half window and half wall. What is the total area of the 5 walls?
  - A 14 square feet
  - B 20 square feet
  - C 35 square feet
  - D 70 square feet
  
8. It took  $2\frac{1}{2}$  hours to build this gazebo and  $1\frac{1}{4}$  hours to paint it. How long did it take to build and paint the gazebo?
  - F 3 hours 20 minutes
  - G 3 hours 30 minutes
  - H 3 hours 40 minutes
  - J 3 hours 45 minutes


Here is a schedule for passenger trains traveling through California. Study the schedule. Then do Numbers 9 through 10.

<b>Western Schedules</b>				
<b>Sacramento-Oakland-Los Angeles</b>				
READ DOWN		READ UP		
15	Train Number		18	
Daily	Frequency of Operation		Daily	
  			  	
7 55 P	Dp	Sacramento, CA	Ar	9 30 A
8 13 P		Davis, CA		8 48 A
8 41 P		Suisan-Fairfield, CA		8 21 A
9 03 P		Martinez, CA		7 59 A
9 32 P		Richmond, CA		7 28 A
9 50 P	Ar	Oakland, CA	Dp	7 15 A
10 10 P	Dp	Oakland, CA	Ar	7 00 A
11 25 P	Ar	San Jose, CA	Dp	5 45 A
11 30 P	Dp		Ar	5 41 A
12 55 A		Salinas, CA		4 12 A
3 51 A	Ar	San Luis Obispo, CA	Dp	1 28 A
3 59 A	Dp	(Hearst Castle)	Ar	1 20 A
6 17 A		Santa Barbara, CA		10 45 P
7 06 A		Oxnard, CA		9 53 P
8 18 A		Glendale, CA		8 43 P
9 00 A	Ar	Los Angeles, CA	Dp	8 25 P

**Reference Marks**

 All reserved train

 Sleeping car service

 Club car service

 Tray, meal and beverage service

 Checked baggage service

A A.M.  
P P.M.  
Ar Arrive  
Dp Depart

**Amtrak** 

\*Registered U.S. Patent and Trademark Office

9. How long does the Number 15 train take to travel from Sacramento to Martinez?

- A 8 minutes
- B 1 hour 8 minutes
- C 1 hour 58 minutes
- D 2 hours 8 minutes

10. How long does the Number 18 train take to get from Los Angeles to Oakland?

- F 1 hour 25 minutes
- G 10 hours 35 minutes
- H 10 hours 45 minutes
- J 11 hours 35 minutes

11. Mary Beth buys 10 hot dogs for her family at a cost of \$1.85 per hot dog. How much does she spend in all?

- A \$11.85
- B \$18.05
- C \$18.50
- D \$18.55

12. In 6 minutes, Jed can run 1 mile. At this rate, how long would it take him to run 10 miles?

- F 54 minutes
- G 16 minutes
- H 36 minutes
- J 60 minutes

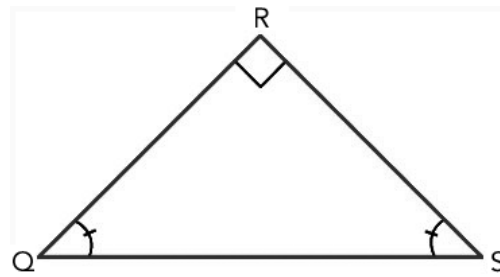
13. Which of these units of measure would be most appropriate for describing the distance from Dallas, Texas, to Phoenix, Arizona?

- A centimeters
- B inches
- C meters
- D miles

14. Justin wishes to measure the width of his test booklet. Which of these units of measure would be most appropriate for describing the width?

- F millimeters
- G centimeters
- H meters
- J kilometers

15. Which of these statements is true about angle  $Q$ ?



- A Angle  $Q$  is a right angle.
- B Angle  $Q$  is an obtuse angle.
- C Angle  $Q$  is an acute angle.
- D Angle  $Q$  is the same size as angle  $R$ .

16. Which is true about the measures of the angles of a triangle?

- F Their sum is greater than 180 degrees.
- G Their sum is equal to 180 degrees.
- H Their sum is less than 180 degrees.
- J Two of the angles can measure more than 90 degrees.

17. Edwin wishes to measure the height of a 10-page pad of paper. Which of these units of measure would be most appropriate for describing the height?

- A millimeters
- B inches
- C feet
- D meters

18. A triangle has three sides of the same length. Which is **not** true about its angles?

- F Each angle measures 60 degrees.
- G They are obtuse angles.
- H All three are acute angles.
- J The sum of their measures is 180 degrees.

19. In one minute, Leo can read a page and a half of his book. Reading at this rate, how many pages can he read in 12 minutes?

- A 6 pages
- B 8 pages
- C 12 pages
- D 18 pages

20. The length of the family room in Carlita's house is 22 feet. The area of the room is 308 square feet. How wide is the room?

- F 14 feet
- G 11 feet
- H 24 feet
- J 22 feet