

## Mathematics Grade 6 Unit 07: Measurement: Two-Dimensional 2012-2013



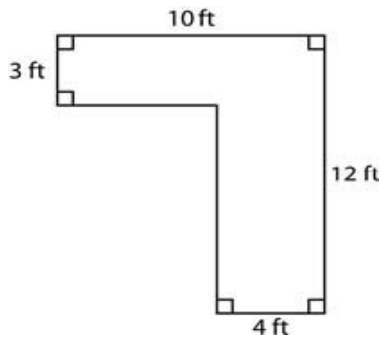
- 1** If the perimeter of a square is 20 meters, what is the length of one side?
- A** 10 meters  
**B** 4 meters  
**C** 5 meters  
**D** 20 meters
- 2** Charlie had a circular patio with a radius of 6 feet. The radius is 9 bricks in length. How many bricks would be in the diameter of the patio?
- F** 36 bricks  
**G** 24 bricks  
**H** 18 bricks  
**J** 12 bricks
- 3** The band room at June's school is rectangular and has an area of 1,200 square feet. The width of the room is 30 feet. How long is the room?
- A** 40 feet  
**B** 360 feet  
**C** 400 feet  
**D** 570 feet
- 4** Tammy sewed 21 feet of lace around her circular tablecloth. How can Tammy find the diameter of the tablecloth?
- F**  $21(\pi)$   
**G**  $(2)(21)(\pi)$   
**H**  $21 \div 2(\pi)$   
**J**  $21 \div \pi$

- 5** A certain map of Texas uses a scale of 2 cm for 80 miles. If the distance on the map between San Antonio and Houston is 6 cm, how many miles is San Antonio from Houston?
- A** 240 miles  
**B** 480 miles  
**C** 160 miles  
**D** 320 miles
- 6** How does the measure of the radius of a circle compare to the measure of the circumference of the circle?

Circumference	Radius
6	1
12	2
18	3
24	4
30	5

- F** The radius is about six times the measure of the circumference.
- G** The radius is about three times the measure of the circumference.
- H** The radius is about one-sixth the measure of the circumference.
- J** The radius is about one-third the measure of the circumference.

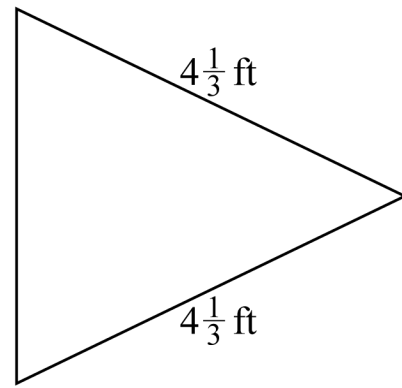
- 7 What is the area of the figure below?



- A 44 feet  
B 66 square feet  
C 44 square feet  
D 66 feet
- 8 Laquida has a circular garden with a radius of about 2 ft. If she wanted to plant 40 bulbs per square foot, about how many should she buy?
- F 120 bulbs  
G 240 bulbs  
H 480 bulbs  
J 300 bulbs
- 9 Scott purchased gifts to give away during the holiday season. He spent \$85.63 on toys, \$98.04 on clothes, and \$171.56 on electronics. He had four 100 dollar bills to spend on the gifts. How much money did Scott have left after he purchased the gifts?
- A \$44.77  
B \$155.87  
C \$755.23  
D \$855.23

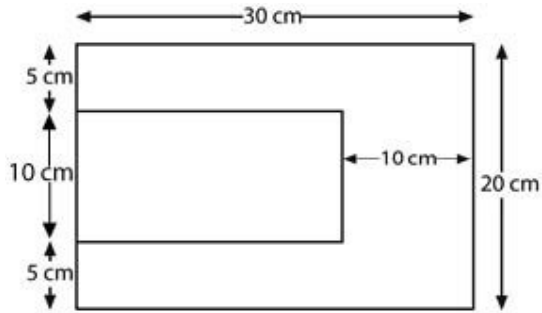
- 10 If the diameter of Brenda's bicycle wheel is 29 inches, approximately how many inches are there in the circumference of the wheel?
- F 52 inches  
G 80 inches  
H 87 inches  
J 104 inches

- 11 Lori knows her school flag has a perimeter of  $11\frac{1}{6}$  feet. What is the length of the third side of the flag?



- A  $19\frac{5}{6}$  feet  
B  $15\frac{1}{2}$  feet  
C  $2\frac{1}{2}$  feet  
D  $3\frac{1}{2}$  feet

- 12** What is the area of the small rectangle in the figure below?



Explain how you got your answer.

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- 13** Each morning, Mark made coffee for the 12 people in his office. He prepared enough so that each person could have at least 2 cups.

A. How many cups of coffee did Mark need to prepare each morning?

B. Use a proportion to determine the number of gallons of coffee needed each morning.

## Test Key

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##	Item #	Correct Answer	Primary SE	Secondary SE	Obj/Cat
1	M061088121D	C	6.8(B) [R]	6.11(D) [P]	STAAR: M4
2	M061088115D	H	6.6(C) [R]	6.11(A) [P]	STAAR: M3
3	M061088125D	A	6.8(B) [R]	6.11(C) [P]	STAAR: M4
4	M061092864D	J	6.6(C) [R]	6.12(A) [P]	STAAR: M4
5	M061096346D	A	6.2(C) [R]	6.12(A) [P]	STAAR: M1
6	M061090019D	H	6.6(C) [R]	6.13(A) [P]	STAAR: M3
7	MO60C20664CS	B	6.8(B) [R]	6.12(A) [P]	STAAR: M4
8	M061078906RX	H	6.8(A) [S]	6.11(A) [P]	STAAR: M4
9	M06020782CS	A	6.2(B) [R]	None	STAAR: M1
10	M061088123D	H	6.8(A) [S]	None	STAAR: M4
11	M06020781CS	C	6.2(B) [R]	None	STAAR: M1
12	M063022720	The area of the small rectangle would be $10 \times 20$ or 200 square centimeters.  The explanation must include how dimensions of small rectangles were figured and how area was calculated.	6.8(B) [R]	6.13(B) [P]	STAAR: M4
13	M061099184D	A. 24 cups B. 1.5 gallons	6.2(C) [R]	6.12(A) [P]	STAAR: M1