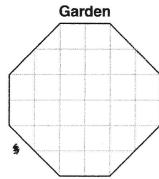
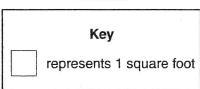
"M-ath"letes
Challenge
2011
Sudden Death

Team Name:

1 The picture below shows the shape of a garden.

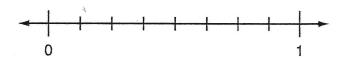




What is the area of the garden?

- A. 24 square feet
- B. 28 square feet
- C. 32 square feet
- D. 36 square feet

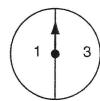
2 Part of a number line is shown below.

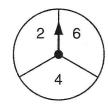


Which list has the fractions in order from least to greatest?

- A. $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{7}{8}$
- B. $\frac{3}{8}$, $\frac{7}{8}$, $\frac{1}{2}$, $\frac{3}{4}$
- C. $\frac{1}{2}$, $\frac{3}{8}$, $\frac{3}{4}$, $\frac{7}{8}$
- D. $\frac{1}{2}$, $\frac{3}{4}$, $\frac{3}{8}$, $\frac{7}{8}$

3 Mary has these two spinners.





She spins each arrow once and writes down the sum of the two numbers. How many **different** sums are possible?

- A. 2
- B. 3
- C. 4
- D. 5

4 The △ and □ are different numbers that make this sentence true.

$$\triangle \times 8 = \square$$

Which other number sentence must be true?

A.
$$\square \div 8 = \triangle$$

C.
$$\triangle \div \square = 8$$

D.
$$8 \div \triangle = \square$$

- 5. Karen is playing a number game. The rule is: multiply by 2 for the next number, then add 8 for the number after that. The pattern continues. Which sequence of numbers follows the rule?
 - A. 1, 3, 24, 26, 52, 54, 108
 - B. 3, 6, 14, 28, 30, 60, 62
 - C. 7, 14, 28, 56, 112, 224, 448
 - D. 12, 24, 32, 64, 72, 144, 152
- 6. The equation below is used to find the number of model cars (M) in Carlos's model car collection.

$$M \div 39 = 3$$

How many cars are in Carlo's collection, M?

- A. 13
- B. 36
- C. 42
- D. 117
- 7. The total number of days without snow for 6 cities is listed below.

What is the median of the set of data?

- A. 165
- B. 168
- C. 171
- D. 175

8 The pictograph below shows the ages of the campers at Camp Fairweather.

Ages of the Campers

8 years	
9 years	
10 years	
11 years	

Key
represents 6 campers

What is the total number of campers?

- A. 54
- B. 60
- C. 63
- D. 72

- **9** Which expression is equivalent to 12,000?
 - A. 10 thousands + 12 hundreds
 - B. 11 thousands + 10 hundreds
 - C. 1 thousand + 1 hundred + 10 tens
 - D. 1 thousand + 10 hundreds + 10 tens

10 The chart below shows the amount of money Meg will collect in a walkathon based on the number of miles she walks.

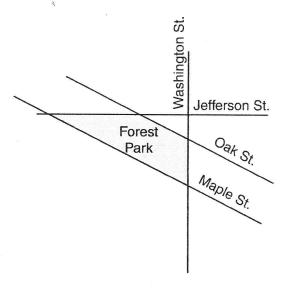
Walkathon Chart

Miles	Money Collected
2	\$26
4	\$34
6	\$42
8	\$50
10	\$58

The pattern in the chart continues. Meg collected \$74 in the walkathon. How many miles did Meg walk?

- A. 12
- B. 14
- C. 16
- D. 18

11 In the map below, Maple Street and Oak Street are parallel.



What is the shape of Forest Park?

- A. a square
- B. a rectangle
- C. a rhombus
- D. a trapezoid

12. Alyssa created the pattern shown below using toothpicks.

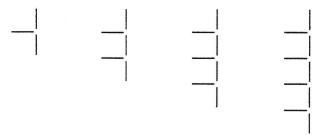


Figure 1 Figure 2 Figure 3 Figure 4

The pattern continues. Exactly how many toothpicks are in Figure 8 in the pattern?

- A 11
- B 15
- C 17
- D 18

Mathletes Challenge Round 1 Sudden Death みみの

Name: 1/EY- Crader Test: 3/2/2011

B 1. OCO - Garden question

A 2. 🔷 🗆 🔾 🛈

C3. (A) (B) (C)

A4. 🐠 🖜 🗆 🗆

D 5. 🗆 🗆 👁

⊅ 6. ◎ ◎ ◎ ◎

B 7. 0000

C 8. (3) (6) (1)

B 9. (20)

B10. ② ● ○ ○

⊅11. ◎ ◎ ○ ◎

€12. ◎ 🕒 🐠 🕕