

$$873 + 241 + 92 + 8,735 = \underline{\hspace{2cm}}$$

What digit is in the hundreds' place of the answer?

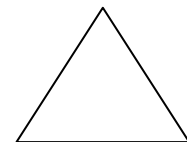
Hint : Your answer should be a perfect square.

Place your answer into the box on the answer sheet
and pass it on to Student #2.

Hint : The number you receive should be an odd number.

Let $x = 2$ and $y = 5$.

$$x - 3y =$$



Hint : Your answer should be a prime number.

Place your answer into the triangle on the answer sheet
and pass it on to Student #3.

Orange County Middle School Mathematics Contest 2007 Relay Round – Practice Round	Student #3
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Hint : The number you receive should be an odd number.

Students' Pets		Each • = animals.	How many pets are cats?						
Pets	<table style="border-collapse: collapse;"> <tr> <td style="padding-right: 5px;">Other</td> <td>••••</td> </tr> <tr> <td>Birds</td> <td>••</td> </tr> <tr> <td>Dogs</td> <td>••••</td> </tr> <tr> <td>Cats</td> <td>•••••</td> </tr> </table>			Other	••••	Birds	••	Dogs	••••
Other	••••								
Birds	••								
Dogs	••••								
Cats	•••••								
Number of Students									

Hint : Your answer should be a multiple of 3.

Place your answer into the circle on the answer sheet
and pass it on to Student #4.

Orange County Middle School Mathematics Contest 2007 Relay Round – Practice Round	Student #4
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Hint : The number you receive should have 2 digits.

$$\frac{\text{circle}}{21} = \frac{5}{\text{hexagon}}$$

Hint : Your answer should be a prime number.

Place your answer into the hexagon on the answer sheet
and pass it on to your coach.

Orange County Middle School Mathematics Contest 2007 Relay Round – Round 1	Student #1
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$$(5 + 3 \cdot 4 - 2^3) \div 3 = \boxed{}$$

Hint : Your answer should be a prime number.

Place your answer into the box on the answer sheet and pass it on to Student #2.

Orange County Middle School Mathematics Contest 2007 Relay Round – Round 1	Student #2
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Hint : The number you receive should be less than 5.

$$\frac{2}{\boxed{}} \times \frac{\boxed{}}{5} \div \frac{4}{15} = \frac{\triangle}{2}$$

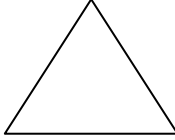
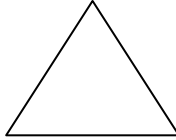
Hint : Your answer should be a prime number.

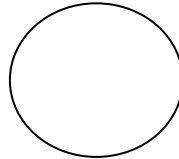
Place your answer into the triangle on the answer sheet and pass it on to Student #3.

Orange County Middle School Mathematics Contest 2007
Relay Round – Round 1

Student
#3

Hint : The number you receive should be less than 5.

Jackie has  caps, 5 shirts and  pairs of shorts. How many different outfits can she make if she wears one cap, one shirt, and one pair of shorts at a time?



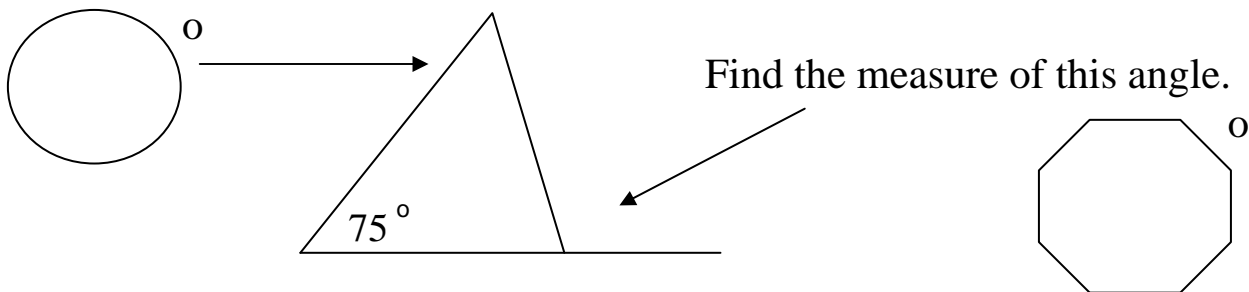
Hint : The sum of the digits in your answer should be 9.

Place your answer into the circle on the answer sheet
and pass it on to Student #4.

Orange County Middle School Mathematics Contest 2007
Relay Round – Round 1

Student
#4

Hint : The number you receive should be a multiple of 9.



NOT DRAWN TO SCALE

Hint : Your answer should be greater than 100.

Place your answer into the hexagon on the answer sheet
and pass it on to your coach.

Which is NOT equivalent to the others?

0.3 $\frac{9}{20}$ $\sqrt{0.09}$ $\frac{3}{10}$

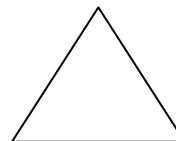
Place your answer into the box on the answer sheet
and pass it on to Student #2.

Hint : *The number you receive should be a fraction.*

A bag contains 20 tiles which are red, blue, and yellow. The probability of drawing a red is

The probability of drawing a blue is $\frac{3}{10}$.

How many yellow tiles are in the bag?

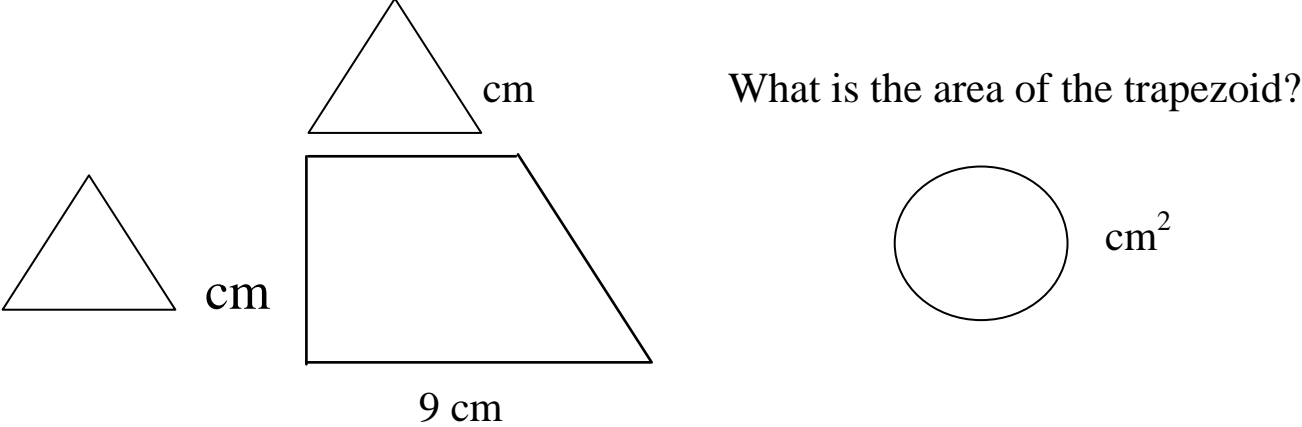


Hint : *Your answer should be less than 10.*

Place your answer into the triangle on the answer sheet
and pass it on to Student #3.

Orange County Middle School Mathematics Contest 2007 Relay Round – Round 2	Student #3
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Hint : The number you receive should be prime.

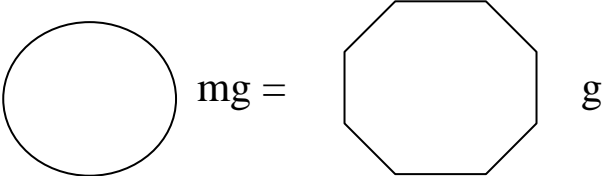


Hint : Your answer should be a multiple of 5 .

Place your answer into the circle on the answer sheet
and pass it on to Student #4.

Orange County Middle School Mathematics Contest 2007 Relay Round – Round 2	Student #4
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Hint : The number you receive should be a multiple of 7 .



Hint : Your answer should be a decimal.

Place your answer into the hexagon on the answer sheet
and pass it on to your coach.

What is the median of this set?

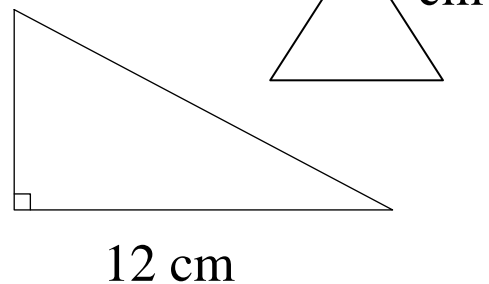
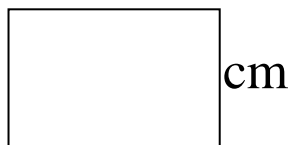
2 3 8 9 3 5 7 2 5

Hint : Your answer should be an odd number.

Place your answer into the box on the answer sheet
and pass it on to Student #2.

Hint : The number you receive should be less than 10.

Find the hypotenuse
of this triangle.



Hint : Your answer should be a prime number.

Place your answer into the triangle on the answer sheet
and pass it on to Student #3.

Orange County Middle School Mathematics Contest 2007 Relay Round – Round 3	Student #3
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Hint : The number you receive should be greater than 10.

$$4.05 + \triangle - 4.876 = \underline{\hspace{2cm}}$$

What digit is in the thousandths place?

Hint : Your answer should be a multiple of 2.

Place your answer into the circle on the answer sheet
and pass it on to Student #4.

Orange County Middle School Mathematics Contest 2007 Relay Round – Round 3	Student #4
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Hint : The number you receive should be less than 5.

$$\text{Hexagon} + \text{Circle} = 81$$

Hint : Your answer should be a prime number.

Place your answer into the hexagon on the answer sheet
and pass it on to your coach.

Orange County Middle School Mathematics Contest 2007
Relay Round – Round 4

Student
#1

Solve for x : $1.4x + 1.5 = 8.5$ $x =$

Hint : *Your answer should be less than 10.*

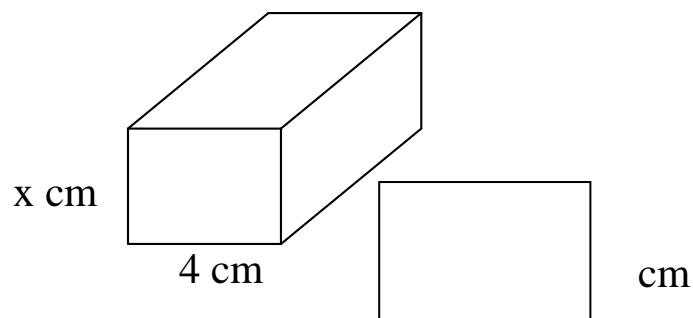
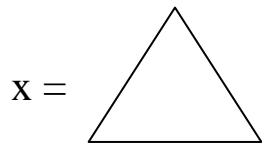
Place your answer into the box on the answer sheet
and pass it on to Student #2.

Orange County Middle School Mathematics Contest 2007
Relay Round – Round 4

Student
#2

Hint : *The answer you receive should be a prime number.*

The volume of this
figure is 60 cm^3 .



Hint : *Your answer should be an odd number.*

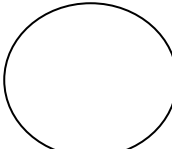
Place your answer into the triangle on the answer sheet
and pass it on to Student #3.

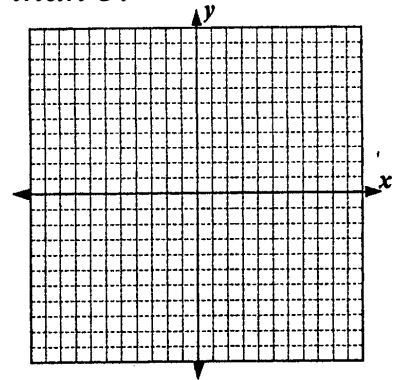
Orange County Middle School Mathematics Contest 2007
Relay Round – Round 4

Student
#3

Hint : The number you receive should be less than 5.

What is the slope of a line which contains
the points $(2, 4)$ and $(\triangle, 8)$?

Slope = 



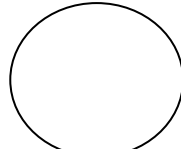
Hint : Your simplified answer should be an even number.

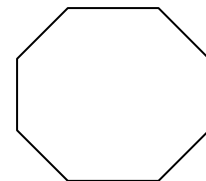
Place your answer into the circle on the answer sheet
and pass it on to Student #4.

Orange County Middle School Mathematics Contest 2007
Relay Round – Round 4

Student
#4

Hint : The number you receive should be a perfect square.

There are  apple, 3 orange, 2 cranberry, and 5 grape drinks in
a cooler. If you reach into the cooler without looking and pull out one
drink, what is the probability you will pull a grape drink?



Hint : Your answer should contain numbers that are relatively prime.

Place your answer into the hexagon on the answer sheet
and pass it on to your coach.

Orange County Middle School Mathematics Contest 2007
Relay Answers

	Student 1	Student 2	Student 3	Student 4 FINAL
Practice A	9	3	15	7
Round 1	3	3	45	120°
Round 2	$\frac{9}{10}$	5	35	0.035
Round 3	5	13	4	3
Round 4	5	3	4	$\frac{5}{14}$

	Student 1	Student 2	Student 3	Student 4 FINAL
Practice A	9	3	15	7
Round 1	3	3	45	120°
Round 2	$\frac{9}{10}$	5	35	0.035
Round 3	5	13	4	3
Round 4	5	3	4	$\frac{5}{14}$