

# Math, Logic & Verbal Test

January 18, 2010

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Name: (First)_____ (Last)_____	Time allowed: 75 minutes
School: _____ Grade: _____	

### Math & Logic Section

1		2		3		4		5	
6		7		8		9		10	
11		12		13		14		15	
16		17		18		19		20	
21		22		23		24		25	
26		27		28		29		30	
31		32		33		34		35	
36		37		38		39		40	
41		42		43		44		45	
46		47		48		49		50	
51		52		53		54		55	
56		57		58		59		60	

### Verbal Section

1		2		3		4		5	
6		7		8		9		10	
11		12		13		14		15	
16		17		18		19		20	

GT2 for A C S (Spring, 2010)

ACS @  
Rich Montgomery HS  
2010 Only

## GT2 for A C S (Spring, 2010)

### Math & Logic

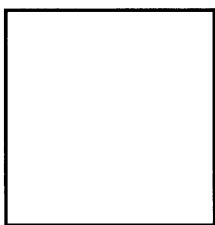
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#### Question set [1 - 5]

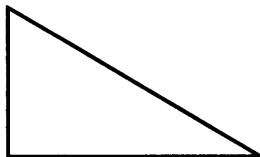
Look at each shape. Write the number of square corners each shape has. Use the number in the choice box.

Choice box: 0, 1, 2, 3, 4, 5, 6

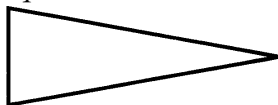
1. The shape below has \_\_\_\_\_ square corners.



2. The shape below has \_\_\_\_\_ square corners.



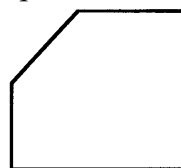
3. The shape below has \_\_\_\_\_ square corners.



4. The shape below has \_\_\_\_\_ square corners.



5. The shape below has \_\_\_\_\_ square corners.



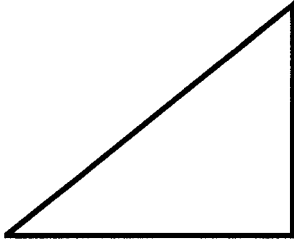
#### Question set [6 - 10]

Look at each shape. Write the number of corners and square corners each shape has. Use the number in the choice box.

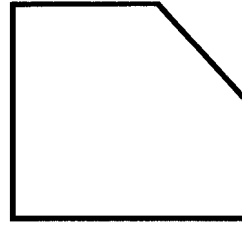
Answer box: all, none, one, two, three, four, five, six.

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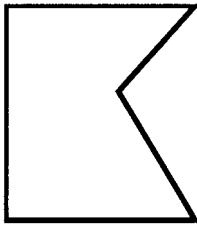
6. This shape has \_\_\_\_\_ corners and \_\_\_\_\_ square corners.



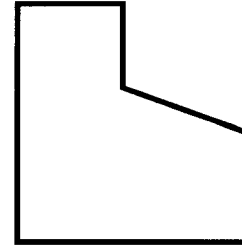
9. This shape has \_\_\_\_\_ corners and \_\_\_\_\_ square corners.



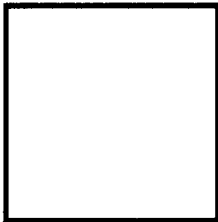
7. This shape has \_\_\_\_\_ corners and \_\_\_\_\_ square corners.



10. This shape has \_\_\_\_\_ corners and \_\_\_\_\_ square corners.



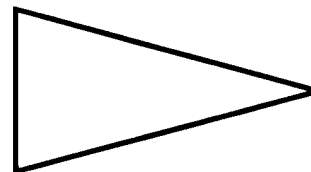
8. This shape has \_\_\_\_\_ corners and \_\_\_\_\_ square corners.



Question set [11 - 15]

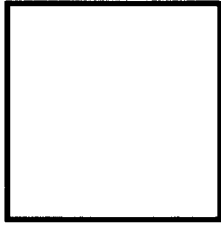
Count how many sides each shape has.  
Count how many of them are equal length.

11. This shape has \_\_\_\_\_ sides, and \_\_\_\_\_ sides are the same length.

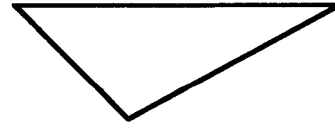


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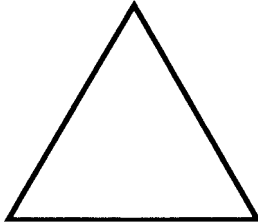
12. This shape has \_\_\_\_\_ sides, and \_\_\_\_\_ sides are the same length.



15. This shape has \_\_\_\_\_ sides, and \_\_\_\_\_ sides are the same length.



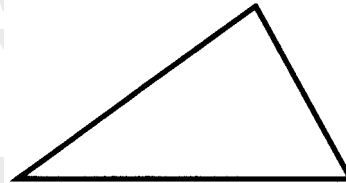
13. This shape has \_\_\_\_\_ sides, and \_\_\_\_\_ sides are the same length.



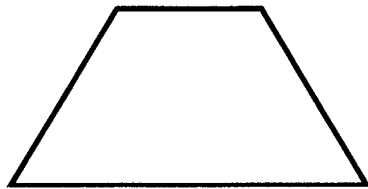
Question set [16 - 20]

Count how many sides each shape has. Count how many of them are equal length.

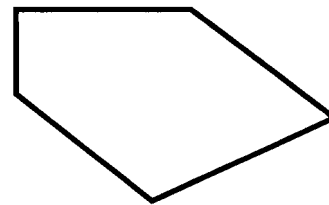
16. This shape has \_\_\_\_\_ sides, and \_\_\_\_\_ sides are the same length.



14. This shape has \_\_\_\_\_ sides, and \_\_\_\_\_ sides are the same length.

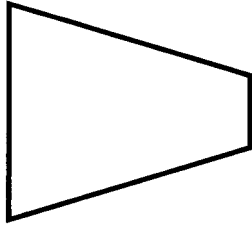


17. This shape has \_\_\_\_\_ sides, and \_\_\_\_\_ sides are the same length.



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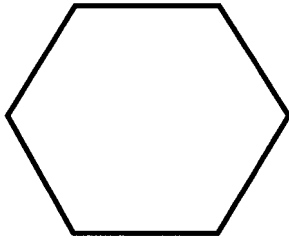
18. This shape has \_\_\_\_\_ sides, and \_\_\_\_\_ sides are the same length.



21.  $V : 5 :: IV :$

22.  $10 - \square = 6 : 4 :: 14 - \triangle = 5 :$

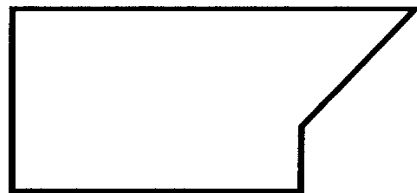
19. This shape has \_\_\_\_\_ sides, and \_\_\_\_\_ sides are the same length.



23.  $::$

24.  $TL : TLT :: Y\lambda :$

20. This shape has \_\_\_\_\_ sides, and \_\_\_\_\_ sides are the same length.

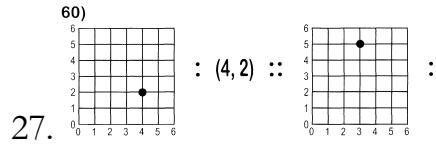


25.  $30 : 40 :: 70 :$

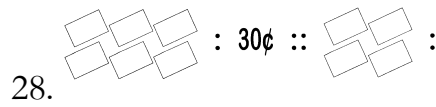
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26. 10, 20 : 30, 40 :: 50, 60 :

31. I, II, III, IV : 1, 2, 3, 4 :: V, VI, VII, VIII, IX :



32. 1¢ : \$.01 :: 25¢ :



33. : 18 :: :

29.  $3+3+3+3 : 4 \times 3 :: 7+7+7+7 :$

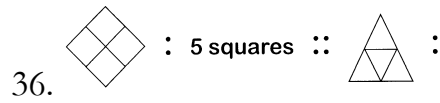
34. 500,000 : 400,000 :: 300,000 :

30. : :: :

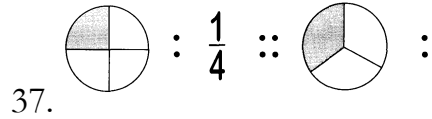
: :: :

35. : even :: :

GT2 for A C S (Spring, 2010)



41. Jan gets on the school bus at 8:35 a.m. She rides the bus for 35 minutes. At what time does Jan arrive at school?



42. The black rhinoceros weighs 2,000 pounds.  
The white rhinoceros weighs 4,000 pounds.  
Which rhinoceros weighs more?

38.  $55 - 5 : 5 + 45 :: 80 - 20 :$

43. 10 squirrels were sitting on a branch.  
One ran down the trunk and 3 went into their nest.  
How many are still on the branch?  
(Write a number sentence here.)

39. odd :  $\frac{399}{400}$  :: even :  $\frac{401}{400}$

40. 

November 18th
------------------

 : Wednesday :: 

November 22nd
------------------

 :

44. On Monday, Michael saw 8 snowmen at the park. When Michael came back to the park on Thursday, Michael noticed that half of snowmen had melted. How many snowmen did Michael see on Thursday?

GT2 for A C S (Spring, 2010)



45.

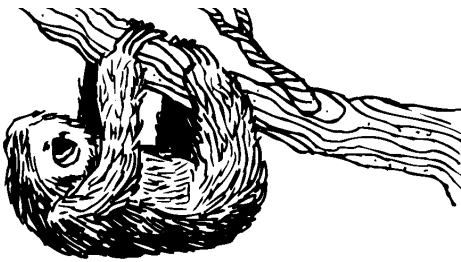
How many sandals are there?



47.

Adult polar bears have 42 teeth.  
Adult humans have 32 teeth.  
How many more teeth do polar bears have?

(Write a number sentence here.)



46.

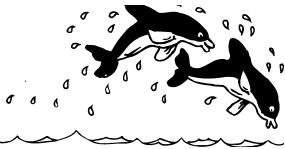
Sloths sleep 12 hours each day.  
How many hours does a sloth sleep in 4 days?

Facts About Polar Bears

- A polar bear cub's eyes open after 33 days.
- A cub's hearing is developed after 68 days.
- A cub may not walk until it is nearly 11 weeks old.

48. A koala ate 25 eucalyptus leaves in the morning,  
and ate 35 eucalyptus leaves in the evening.  
How many leaves did it eat in all?

GT2 for A C S (Spring, 2010)



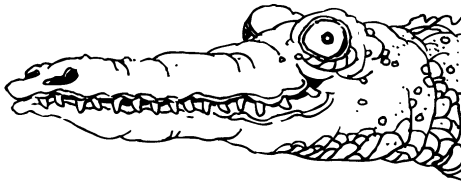
49. 11 dolphins swam in the pool.  
2 leaped out of the water.  
How many were still in the pool?



52. The male zebra weighs 550 pounds.  
A female weighs 480 pounds.  
(a) Which one is heavier?  
  
(b) How much more does the heavier one weigh?  
(Write a number sentence here.)

50. 1, 3, 5, 7, 9, etc are called odd numbers. What is the odd number greater than 16 but it's less than 19?

53. The pet store sells hedgehog food in a bag for \$10.  
A bag should last 2 months.  
How much will it cost to feed a hedgehog for 10 months?



51. When an alligator's teeth wear out, it grows new ones.  
An alligator has 80 teeth in its mouth at one time.  
How many tens are in 80?

## GT2 for A C S (Spring, 2010)

54. A fruit basket has equal number of apples, pears and oranges. If there are 12 fruits inside the basket, how many apples are there?

(Hint: 12 fruits are represented by circles below. Mark “a” for apple, “p” for pear, and “o” for orange.)



56. A meerkat has 4 toes on each foot.  
How many toes does it have in all?

57. Alex went fishing. He caught one fish in the first hour, 2 fish in the second hour, 3 fish in the third hour.

(a) If he continued fishing, how many fish would he catch in the 4<sup>th</sup> hour?

(b) How many fish would he catch in 4 hours?



55. Sam wants to buy a guinea pig at the pet store. It costs \$4.

Sam has \$10 in his pocket.

(a) How much will he have left over if he buys one guinea pig?

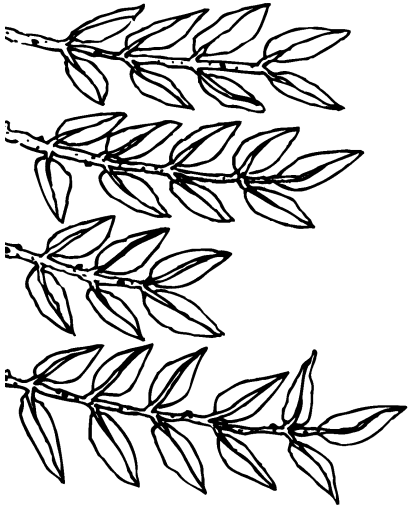
(Write a number sentence here.)

(b) Does he have enough money for 2 or 3 guinea pigs?

58. Mindy’s candle is 5 inches long. Her candle takes 10 minutes to burn 1 inch. How long will her candle burn?

59. Jim gets paid 5 cents for delivering newspapers. He delivers 9 newspapers. How much money does he make?

**GT2 for A C S (Spring, 2010)**



When it eats, the camel eats just a few leaves from each plant. How many leaves will be left altogether if the camel eats 3 leaves from each branch?

60.

**A C S @**  
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## GT2 for A C S (Spring, 2010)

### VERBAL

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Each question in this section contains three words in bold letters. Review these words and determine why they are similar. Select the word from the five available answers that is most similar to the bold words.

20 questions

Approximate time to complete: 10 minutes

1. **yellow purple green**  
a. caterpillar    b. brown    c. chalk    d. pretty    e. colorful
  
2. **apple orange cantaloupe**  
a. banana    b. fruit    c. carrot    d. vegetable    e. candy
  
3. **lake stream pond**  
a. marina    b. fish    c. boat    d. ocean    e. swim
  
4. **milk coffee juice**  
a. lemonade    b. drink    c. snack    d. cup    e. thirsty
  
5. **mother father daughter**  
a. boy    b. family    c. happy    d. group    e. son
  
6. **furiosus angry irate**  
a. calm    b. pleasant    c. mad    d. body    e. work
  
7. **sun lemon daffodil**  
a. grapes    b. rain    c. smiles    d. beautiful    e. banana
  
8. **nice helpful polite**  
a. careful    b. respectful    c. picky    d. pretty    e. fancy

## GT2 for A C S (Spring, 2010)

9. **cup pint quart**  
a. measure    b. gallon    c. pound    d. pour    e. mix
10. **almond pecan peanut**  
a. nut    b. butter    c. food    d. walnut    e. tree
11. **sunny rainy snowy**  
a. cloudy    b. winter    c. cold    d. happy    e. weather
12. **robin sparrow eagle**  
a. flying    b. airplane    c. bird    d. hawk    e. nest
13. **triangle diamond oval**  
a. ball    b. circle    c. shape    d. baseball    e. character
14. **orbit circle ring**  
a. round    b. jewelry    c. pretty    d. square    e. shape
15. **cut slice tear**  
a. rip    b. knife    c. scissors    d. damage    e. nature
16. **roof window wall**  
a. house    b. apartment    c. door    d. car    e. shed
17. **bake grill roast**  
a. food    b. kitchen    c. fry    d. hungry    e. eat
18. **fish submarine scuba diver**  
a. boat    b. shark    c. vacation    d. swim    e. ocean
19. **hour month week**  
a. second    b. time    c. calendar    d. work    e. schedule

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20. truck    bicycle    wheelbarrow  
a. fast        b. motor        c. car        d. highway    e. drive