

Placement Evaluation

To determine readiness for

SIXTH GRADE

Please Fill In This Form Comple	etely					
Name of child		Boy/Girl	Age	 Month	/ Day	/ Year of birth
Current grade	Date student w	vill finish		Grade level	requesti	ng (grades 3–8)
Street address	City			State	2	Zip/Postal Code
Name of parent/guardian		Name of Learr	ning Guide	/teacher/tutc	or	
() Daytime phone		Email address				

Verticy Course Enrollment

- □ I am enrolling in Verticy Learning's Complete Program, which includes all subjects (Complete all Parts).
- □ I am enrolling in Reading, which includes Phonics/Spelling & Grammar/Composition (Complete Parts I, II, III, VI).
- □ I am enrolling in Phonics/Spelling (Complete Parts I, II, VI).
- □ I am enrolling in Grammar/Composition (Complete Parts I, II, III).
- □ I am enrolling in Literature (Complete Parts I, IV).
- □ I am enrolling in Math (Complete Parts I and V).

Directions for Submitting Placement Materials

Before submitting your Verticy Placement Evaluation please check which components your student has completed. Refer to the section above for required components. The Placement Evaluations and Family Questionnaire can be sent to Verticy Learning by mail or via e-mail; please do not fax any materials. Placement decisions will be made within three to five business days after Verticy receives the required pieces.

☐ Part I. Family Questionnaire	Part III. Grammar	□ Part V. Mathematics
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□ Part II. Composition	□ Part IV. Reading Comprehension	□ Part VI. Online Portion
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SUBMITTING THE TEST: Mail or e-mail the completed test using the directions below.

MAIL: Calvert Education Services, Verticy Learning Placement Evaluation 10713 Gilroy Road, Suite B • Hunt Valley, MD 21031

E-MAIL: Please scan the test and questionnaire pages as a single PDF file. Be sure that the writing is clear and dark enough to produce a clearly scanned document. Attach this to your e-mail and type "Verticy Learning Placement" in the subject line of the message. Send your e-mail to placement@calvertservices.org.

IMPORTANT: DO NOT FAX THE TEST.



Part I. Family Questionnaire

Thank you for your interest in Verticy Learning's program for students with language-based learning differences. Due to the individualized nature of this program, please answer the following questions so our education specialists can gain a better understanding of your child's needs in order to offer appropriate support that can contribute to more effective teaching and communication.

WILL YOU BE ENROLLING THROUGH A CORPORATION, GOVERNMENT AGENCY, CHURCH, SCHOOL DISTRICT OR OTHER GROUP?

YES

NO IF YES, PLEASE SPECIFY: ____

ABOUT YOUR CHILD

Please list your child's hobbies, interests, pets, and/or extra-curricular activities:

Describe what you observe or know about your child that motivated you to enroll in the Verticy Learning program:

Please rate your child's level of ability from 1 through 5 in the following areas: (1 – extremely low; 5 – extremely high)

- ____ Expresses self orally
- ____ Has a strong attention span
- ____ Is able to focus on work for a lengthy duration of time, 3-4 hours
- ____ Has a strong memory
- ____ Has good listening comprehension skills

In what areas of study does your child struggle? Please select all that apply:

Math concepts

Spelling

Reading

Writing

Part I. Family Questionnaire

Does anyone else in your family experience learning differences in math, spelling, reading, or writing, or has anyone been diagnosed with a learning difference?

🗌 Yes 🗌 No		
If yes, please list the family memb learning difference(s):	er(s) by name, their relationsh	ip to this child, and describe their
How did your child receive his/her	education this past year?	
Homeschool	Virtual school	
Public school	Charter school	
Private school		
If your child had a number of edu	icational settings, please list the	em and provide the duration of each:
Itas your child ever received special Yes If yes, please describe:		
What is the primary language spok	en in the child's home?	
List the child's siblings and ages: _		
Name of Learning Guide (adult gui	iding lessons):	
Relationship of Learning Guide to	student:	
How much time can the Learning (Guide give daily?	
How many children will be workin	g with the Learning Guide?	
*		0414
4 🔪 🔪 Part I. Family Que	stionnaire	Placement Evaluation, Verticy Learning

SUBJECTS

Reading

Dog your child aniow!	having books road to b	im/har?	
l Yes			
Does your child compr	ehend what is being re	ad to him/her?	
Yes	🗌 No	Sometimes	
At what ago did your d	hild loarn to road?		
At what age the your ci			
Does your child read for	or pleasure independer	ntly?	
Yes	🗌 No	Sometimes	
If yes or sometimes, v	what type of books or m	agazines does your child prefer?	
Does your child compr	ehend what he/she is r	eading independently?	
Writing			
Is your child?			
Right-handed	Left-handed	Mixed	
Does your child write i	n?		
manuscript	🗌 cursive	Combination of both	
Is your child's handwri	ting?		
Neat and easy to	read		
Legible but not v	ery neat		
🔲 Illegible — difficu	ult to read		
Does your child have k	evboarding skills?		
	eye our uning ordinor		
If ves. how often and	for what purpose does	your child use the computer to communicate with words?	
(i.e. composition write	ting, letter writing, onli	ne chatting, instant messaging) Please explain:	

If no, is your child capable of typing a short paragraph on a computer?

★

Part I. Family Questionnaire

Does your child have experience in writing a paragraph or composition?

Yes No
If yes, does your child? (Please check all that apply.)
Enjoy writing
Write in complete sentences
Follow basic punctuation rules
Struggle through writing assignments

If your child cannot write independently, is he/she capable of verbalizing his/her ideas?

Yes	No

Math

My child's grade level in Math is:

Above grade level

On grade level

Below grade level

Do new mathematical concepts come easily to your child?

Yes		No
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Does your child have difficulty remembering the basic math facts?

\square	Yes	No
	i CJ	110

If yes, please identify with which facts he/she experiences difficulty. Please check all that apply:

Addition

Subtraction

Multiplication

Division

Thank you for completing this Family Questionnaire. Please e-mail or mail this form with the completed placement evaluation to one of the addresses below.

E-mail: placement@calvertservices.org Mailing address: Calvert Education Services Verticy Learning Placement Evaluation 10713 Gilroy Road, Suite B Hunt Valley, MD 21031

Part II. Composition

- 1. Write your composition on one of the subjects listed below or about the picture shown.
- 2. Write your composition on lined paper using a pencil.
- 3. Whenever possible, handwrite your composition.
- 4. You should use punctuation marks and capital letters where they belong.
- 5. Do not ask for help spelling words. Use your best thinking.
- 6. If you use a pre-writing organizer, please include this with the composition.
- 7. It is not necessary for you to have your composition edited or to write a final draft. If, however, you wish to write a final draft, remember to submit the rough draft with the final draft.
- 8. If you have a severe fear of writing, you may write a letter to a friend or family member, or you may send in previously written rough drafts as long as the sample reflects your current composition skills.

My Pets	My Family	An Exciting Day	
My Friend	An Interesting Trip	Fun on the Weekend	

HOW MUCH TIME DID YOUR STUDENT SPEND WRITING THIS COMPOSITION?

_____ HOURS _____ MINUTES

Does the time you recorded above include any or all steps of preplanning (use of an organizer, writing a rough draft, editing, and writing final draft), or does it include only the writing of the composition?





Part III. Grammar

- I. Carefully read *each* of the following groups of words. Put a check mark (\checkmark) on the line of each group of words that make a complete sentence. Watch out! Punctuation marks do not necessarily mean complete sentences.
 - _____ 1. The children on the baseball team.
 - _____ 2. The playful kittens are fun to watch.
 - _____ 3. The boys climbed up to the tree house quickly.
 - _____ 4. Each of the children.
 - _____ 5. Teddy is a good swimmer.
- II. Draw a line (/) between the complete subject and the complete predicate in the following sentences.Example: Yesterday, the mouse / ran up the clock.
 - 1. The three little kittens lost their mittens.
 - 2. Many pretty flowers grow in May.
 - 3. The package arrived on time.
 - 4. Most children enjoy games.
 - 5. Several students attended the game.
- III. Underline each verb phrase.

Example: Yesterday, the mouse <u>was running</u> up the clock.

- 1. The wind is blowing fiercely.
- 2. Motorcycles were roaring down the highway.
- 3. The bees have gathered the nectar.
- 4. Our class will study minerals.

- IV. Underline all adjectives in each sentence. Do not underline the articles *a*, *an*, or *the*.Example: Yesterday, the <u>gray</u> mouse ran up the <u>old</u> clock.
 - 1. The tall, thin girl brought an empty basket.
 - 2. I saw a beautiful, bright light.
 - 3. The spotted dog ran to greet the little boy.
 - 4. Six friends ate hamburgers at the summer picnic.
- **V.** Underline the adverbs in each sentence.

Example: <u>Yesterday</u>, the mouse ran up the old clock.

- 1. The instructor arrived late.
- 2. The driver drove the bus cautiously.
- 3. The team will play football today.
- 4. The tutor easily explained the math problem.
- 5. The children are playing there quietly in the yard.



Part IV. Reading Comprehension

If your student is able to read the passages independently, please have them do so. If they are unable to read independently, or they begin to struggle during the assessment, read the passages and responses to the student. This will help us determine the student's listening comprehension, which is often a key factor in placing our struggling readers. Have the student fill in the circle to indicate the appropriate answer for each question. When the comprehension section is completed, please check the box to indicate whether the student read independently, or listened to the selections.

SECTION A

Each lord and noble built a castle on the land that he was given, and there he lived like a little king with all his workpeople about him. The castle was not only his home, but it had to be a fort as well to protect him from other lords who might try to take his castle away from him. He usually placed it on the top of a hill or a cliff, so that the enemy could not reach it easily, if at all. It had great stone walls often ten feet or more thick. Surrounding the walls there was usually a ditch called a moat filled with water to make it more difficult for an enemy to get into the castle.

In times of peace, when there was no fighting, the men farmed the land outside the castle; but when there was war between lords, all the people went inside the castle walls, carrying all the food and cattle and everything else they had, so that they could live there for months or even years while the fighting was going on. A castle, therefore, had to be very large to hold so many people and animals for so long a time, and often it was really like a walled town.

 $\ensuremath{\mathbb{O}}$ A Child's History of the World, Virgil M. Hillyer

- Read Selection Independently
 Listened to Selection
- 1. Why were castles often built on a hill or cliff?
 - \odot The lords and nobles liked living close to the sky.
 - \bigcirc It was often the only land available.
 - \bigcirc It kept them safer from enemy attacks.
 - \bigcirc It kept them safe from flood waters.
- 2. Castles were large in size because ______.
 - \bigcirc dragons lived in them
 - \odot all the townspeople could live inside the castles' walls during war time
 - the lords' children needed large spaces to play
 - \bigcirc the lords hosted large parties
- 3. What is a moat?
 - \bigcirc water that surrounds a castle
 - a very strong fence
 - \odot a garden with vegetables and flowers
 - \bigcirc a type of boat

- 4. What is the best title for this passage?
 - Castles and Dragons
 - \bigcirc Kings Live in a Castle
 - Knights and Their Horses
 - \bigcirc A Castle is a Home and a Fortress
- 5. Which statement is correct?
 - A castle had great stone walls often ten feet or more thick.
 - A castle was very small in size.
 - Lords and nobles did not live in the castles they built.
 - \bigcirc Only kings and queens lived in castles.

From the time Jane Goodall was very small, she was fascinated by animals. By the age of eight or nine, she was dreaming of going to Africa.

At 23 she traveled to Africa. Soon she began a study of wild chimpanzees there. She thought that her research might take three years. However, it has lasted more than three decades. It has become the world's longest study of animals in the wild.

Goodall's work depends on careful observation. She watches the chimps for hours, recording everything she sees. She stays as quiet as she can. "It's important not to disturb what the chimpanzees are doing," she explains, "because then you won't see them as they really are."

Goodall has discovered many things about chimps that no one knew before. For example, she discovered that chimps use tools. Goodall still has many questions about chimps, so her research is likely to go on and on! © McGraw-Hill

Read Selection Independently
 Listened to Selection

- 1. When did Jane first become fascinated with animals?
 - \bigcirc when she was studying animals in college
 - \odot when she was 23
 - \bigcirc when she traveled to Africa
 - \bigcirc when she was very small
- 2. What is the best definition of the word *observation* as it is used in this passage?
 - \bigcirc to watch with careful attention
 - \bigcirc a type of camp for chimpanzees
 - \bigcirc an area in Africa
 - \bigcirc to listen to music



Part IV. Reading Comprehension

- 3. Which statement is true about the way Jane studies chimpanzees?
 - \bigcirc Jane plays with chimpanzees.
 - $\odot\,$ Jane likes to be very loud while she is with the chimpanzees.
 - $\odot\,$ Jane watches the chimpanzees for hours.
 - $\odot\,$ Jane never writes about what she sees the chimpanzees doing.
- 4. Jane learns about the behavior of chimps by _____
 - \bigcirc using a remote control camera
 - \bigcirc talking to other people about chimps
 - \bigcirc reading books about chimps
 - $\odot\,$ watching the chimps in their environment
- 5. In the statement: "... it has lasted more than three decades," what does the word *decade* mean?
 - \bigcirc ten days
 - \bigcirc ten weeks
 - \bigcirc ten years
 - \bigcirc ten months

SECTION B

The little red-roofed farmhouse was very old, its chimney crooked and even the small, shuttered windows tilted at angles. A bird's nest, wispy with straw, was half hidden in the corner where the roof met the wall above a bedroom window. Nearby, a gnarled tree was still speckled with a few apples now long past ripe.

Mama and Kirsti had gone inside, but Annemarie and Ellen ran across the high-grassed meadow, through the late wildflowers. From nowhere, a gray kitten appeared and ran beside them, pouncing here and there upon imagined mice, pausing to lick its paws, and then darting off again. It pretended to ignore the girls, but looked back often to be certain that they were still there, apparently pleased to have playmates.

The meadow ended at the sea, and the gray water licked there at damp brown grass flattened by the wind and bordered by smooth heavy stones.

"I have never been this close to the sea," Ellen said.

"Of course you have. You've been to the harbor in Copenhagen a million times."

Ellen laughed. "I mean the real sea, the way it is here. Open like this – a whole world of water." \odot Number The Stars, by Lois Lowry

Read Selection Independently
 Listened to Selection

1. The words "licked there at damp brown grass" mean ______.

- \bigcirc the sea was slowly flooding the area
- \bigcirc the grass was dead and needed water
- \bigcirc the sea water gently reached the meadow
- the grass was dead because it had too much water
- 2. How is the word *speckled* used in the passage to describe the apple tree?
 - A large number of apples were hanging on the tree.
 - A small number of apples were spread over the tree.
 - \bigcirc The apples in the tree had a disease.
 - \bigcirc The apples in the tree were rotten.
- 3. Based on references in the story, what season is it?
 - \bigcirc winter
 - \bigcirc spring
 - \bigcirc summer
 - \bigcirc fall



Part IV. Reading Comprehension

- 4. According to the story, who saw the kitten?
 - O Mamma and Kirsti
 - Ellen, Kirsti, Mamma, and Annemarie
 - O Annemarie and Kirsti
 - O Ellen and Annemarie
- 5. Why does Ellen laugh?
 - \bigcirc She is happy being so close to the sea.
 - $\odot\,$ She is confused about the difference between a harbor and the sea.
 - \odot She sees humor in the fact that a harbor was compared to the sea.
 - \odot She is embarrassed because she has not before seen the sea.

In 1598, Don Juan de Oñate (oh NYAH teh), a wealthy Spaniard, went out to settle new lands. He marched north from Central Mexico with a band of colonists, armed troops, and friars. The friars were members of a religious order who wanted to convert Native Americans to Christianity.

Over 16,000 Pueblo Indians lived in the area de Oñate claimed. The Pueblo were agricultural people with strong religious beliefs. The Spanish, however, believed the greatest kindness they could do for the Pueblo was to convert them to Christianity. To do this, the friars built missions, or church settlements, all over New Mexico. To protect the friars and their converts from the Apache and the Navajo, the Spanish built presidios, or forts. By 1680 a thin chain of missions and presidios stretched across the Southwest.

Many Pueblo continued to practice their religion in secret. When they were discovered, Spanish officials punished them. One of those punished was a spiritual leader named Popé (poh PEH). He believed the Spanish attempt to convert the Pueblo was harmful. Popé planned a revolt against the Spanish and got others to join him.

On August 10, 1680, Popé's followers rose up, burning churches and attacking haciendas. The Spanish fled south to El Paso. The Pueblo had driven the Spanish out of their land at least for a short time. [©] Houghton Mifflin Company

	Read Selection Independently		Listened to Selection
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1. Why did de Oñate travel north from Central Mexico?

○ He was visiting Popé.

- \bigcirc He wanted to settle new lands.
- $\odot\,$ He was planning a revolt against the Spanish.
- \bigcirc He wanted to stop the practice of Christianity.

- 2. Why did the Spanish want to convert the Pueblo to Christianity?
 - \bigcirc They thought that the Pueblo religion was incorrect.
 - \bigcirc They thought that the Pueblo wanted to be converted.
 - \odot The Spanish thought they were being kind.
 - \bigcirc They wanted to build presidios.
- 3. Why do you think the Pueblo practiced their religion in secret?
 - They feared what would happen if the Spanish found out.
 - $\odot\,$ Their religion required them to practice in secret.
 - They thought that practicing their religion in secret would protect the Spanish from Popé.
 - \odot The Spanish wanted them to practice their religion in secret.
- 4. What is the best title for this passage?
 - \bigcirc Native Americans Settle New Lands
 - \bigcirc The Spanish Try to Convert the Pueblo
 - Popé Attacks the Pueblo
 - \bigcirc The Friars Revolt Against the Spanish
- 5. What is the best definition of *mission* as it is used in this passage?
 - \bigcirc the business with which a group is charged
 - \odot an operational task, usually assigned by a higher headquarters
 - \bigcirc missionary duty or work
 - \bigcirc a church settlement



Part IV. Reading Comprehension

SECTION C

Minnie May, aged three, was really very sick. She lay on the kitchen sofa, feverish and restless, while her hoarse breathing could be heard all over the house. Young Mary Joe, whom Mrs. Barry had engaged to stay with the children during her absence, was helpless and bewildered, quite incapable of thinking what to do, or doing it if she thought of it.

Anne went to work with skill and promptness.

"Minnie May has croup all right; she's pretty bad, but I've seen them worse. First we must have lots of hot water. I declare, Diana, there isn't more than a cupful in the kettle! There, I've filled it up, and, Mary Joe, you may put some wood in the stove. I don't want to hurt your feelings, but it seems to me you might have thought of this before if you'd any imagination. Now, I'll undress Minnie May and put her to bed, and you try to find some soft flannel cloths, Diana. I'm going to give her a dose of ipecac first of all."

Minnie May did not take kindly to the ipecac, but Anne had not brought up three pairs of twins for nothing. Down that ipecac went, not only once, but many times during the long, anxious night when the two little girls worked patiently over the suffering Minnie May, and Young Mary Joe, honestly anxious to do all she could, kept on a roaring fire and heated more water than would have been needed for a hospital of croupy babies.

It was three o'clock when Matthew came with the doctor, for he had been obliged to go all the way to Spencervale for one. But the pressing need for assistance was past. Minnie May was much better and was sleeping soundly.

© Anne of Green Gables, L.M. Montgomery

Read Selection Independently
 Listened to Selection

1. Based upon what is stated in the passage, which words might best describe Anne?

- $\, \odot \,$ knowledgeable and attentive
- \bigcirc slothful and uninspiring
- erratic and fickle
- \bigcirc helpless and bewildered

2. Based on the passage, *ipecac* is probably a type of ______.

- \bigcirc food
- clothing
- medicine
- water

3. How did Anne know what to do to treat Minnie May's croup?

- Anne read a book describing how to cure illnesses in children.
- \bigcirc Matthew and the doctor gave her detailed instructions.
- \odot Anne had croup as a child and remembered how she had been cured.
- Anne helped raise three sets of twins, giving her experience in treating croup.

- 4. Which of the following is *not* an example of how other characters in the story assisted Anne in saving Minnie May's life?
 - Matthew went to Spencervale to fetch the doctor.
 - \bigcirc Mrs. Barry cooked a pot of chicken soup.
 - \bigcirc Mary Joe tended to the fire and kept a supply of hot water on hand.
 - $\odot\,$ Diana helped locate soft, flannel cloths.
- 5. By the time the doctor arrived from Spencervale, Anne and the other girls probably felt _____
 - \bigcirc relief
 - \bigcirc disgust
 - \bigcirc frustrated
 - \bigcirc amused

Changing density can explain why an object floats or sinks. For example, you can change the density of water by freezing it into ice. Since water expands when it freezes, ice occupies more space than water. That's why ice is less dense than water. But it's just a little less dense! So most of an ice cube floating on the surface is below the water's surface.

You can make an object sink or float in a fluid by changing its density. The density of a submarine is increased when water fills its floatation tanks. The overall mass of the submarine increases. Since its volume remains the same, its density increases when its mass increases. So the submarine will dive. To make the submarine float to the surface, water is pumped out of it, decreasing its mass. Its density decreases, and it rises toward the surface.

You can also explain why a submarine dives and floats by means of the buoyant force. Since the buoyant force is equal to the weight of the displaced fluid, the buoyant force on the submerged submarine stays the same. Changing the water level in the floation tanks changes the weight of the submarine. The submarine dives when its weight is greater than the buoyant force. It rises to the surface when its weight is less than the buoyant force. It rises to the surface when its weight is less than the buoyant force.

	Read Selection Independently	🗌 L	istened to Selection
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- 1. Which statement is incorrect?
 - $\odot\,$ The density of an object increases as the mass of that object increases.
 - $\odot\,$ The density of an object cannot be changed.
 - \odot An object will sink when its weight is greater than that of the buoyant force.
 - $\odot\,$ An object that is less dense than water will float.

Part IV. Reading Comprehension

- 2. Increasing the water level in the floatation tanks of a submarine causes the submarine to dive because the weight of the vessel is greater than that of the buoyant force. If the weight of a submerged object, such as a submarine, is equal to the buoyant force, the object will ______.
 - \bigcirc rise above the surface of the water
 - decrease in density
 - increase in mass
 - \bigcirc remain submerged in the water
- 3. According to the text, why does only a small fraction of an iceberg appear above the surface of water?
 - $\, \odot \,$ Ice is only slightly less dense than water.
 - $\odot\,$ The iceberg would melt if a larger portion of it was exposed to air.
 - \odot The top of the iceberg weighs less than the bottom portion.
 - \bigcirc Water is slightly less dense than ice.
- 4. Which of the following is an example of when a person might have experienced the effects of buoyant force?
 - flying in an airplane
 - \bigcirc swimming under water
 - \bigcirc freezing water to create ice cubes
 - boiling an egg
- 5. Fran's recipe for salad dressing calls for mixing oil and vinegar. She places both ingredients in the bowl and notices that the oil floats on top of the vinegar. What conclusion can Fran draw about oil and vinegar?
 - \bigcirc Vinegar is less dense than oil.
 - $\odot\,$ Vinegar has a greater density than air.
 - \bigcirc Oil is less dense than vinegar.
 - \bigcirc Oil has a greater density than vinegar.

This placement test will evaluate your student on the skills necessary to successfully begin the Sixth Grade Math curriculum. Remember, your student should complete the work independently. Avoid teaching the skills to your student while administering the test as this assessment is meant to provide an accurate evaluation of your child's current skills. The student does not need to complete the whole test. The student may skip any problems that are too difficult to complete.

Please show all your work when possible.

PART A

1. Solve.

3,542 + 7,256 + 4,984 = _____

\$1,420 - \$720 = _____

804	3674	4321
× 219	<u>× 89</u>	× 96

-	
5	6782
2)	0702

96)3224

8)3224

2. Solve and put the answer in simplest form.



$$\frac{3}{4} \times 4 = \frac{1}{4} \times 6 =$$

- 3. Choose the correct set of data that shows the mean, median, mode and range of the following set of numbers.
 - 12, 8, 7, 10, 8, 7, 8, 12
 - Mean 72; Median 16; Mode 7; Range 12
 - O Mean 72; Median 9; Mode 7; Range 7
 - Mean 9; Median 8; Mode 8; Range 5
 - O Mean 5; Median 8, Mode 9; Range 8
- 4. Solve.

In a class of 30 students, 3/5 are girls. How many are girls?

Use the figure below to answer the following two questions.



- 5. Name a pair of parallel line segments.
 - $\, \odot \, \overline{\text{AB}} \, \text{and} \, \overline{\text{BD}}$
 - \bigcirc $\overline{\text{AC}}$ and $\overline{\text{BD}}$
 - $\, \odot \, \overline{\text{AB}} \, \text{and} \, \overline{\text{CD}}$
 - $\odot\ \overline{\text{CD}}\ \text{and}\ \overline{\text{BD}}$
- **6.** Name a vertical line segment.
 - $\bigcirc \overline{AB}$
 - $\bigcirc \overline{\mathrm{AC}}$
 - $\bigcirc \ \overline{\rm AD}$
 - $\bigcirc \ \overline{\rm DB}$

Use the figure below to answer the following questions.



- 7. Find the perimeter of the figure. _____
- 8. What is the area of the triangle? _____

9. Choose the correct number of lines of symmetry for this square.



Use the graph showing favorite cold climate animals to answer the following questions.



Favorite Cold Climate Animals

10. How many total votes are shown? _____

- 11. What is the difference between the animal that received the most votes and the animal that received the least votes? _____.
- 12. A pair of pants costs \$36.49. A shirt costs \$24.95. Victor has \$55.00. How much more money does he need to buy the pair of pants and the shirt? _____
- 13. Sam jogged on Monday and Tuesday. He jogged 4.55 kilometers on Monday and 1.78 kilometers farther on Tuesday than on Monday. What was the distance he jogged on both days? _____

PART B

Please show your work.

1. Solve these problems.

456	6280	
×831	× 283	8959 ÷ 289 =

21)52,576

2. Choose the number statements below that are correct. There may be more than one correct answer.

$$\bigcirc \frac{2}{4} = \frac{15}{30}$$
$$\bigcirc \frac{9}{27} > \frac{5}{6}$$
$$\bigcirc \frac{4}{3} > 1\frac{1}{4}$$
$$\bigcirc \frac{4}{12} < \frac{2}{24}$$

3. Solve each problem and write the correct answer in simplest form.



4. Write an equation for each of these word problems below and solve.

Jason sold 6 boxes of greeting cards with 18 cards in each box, and 12 boxes with 24 cards in each box. How many greeting cards did he sell?

Equation: _____

Answer: _____

Ralph spent $\frac{5}{9}$ of an hour mixing paints and $\frac{7}{9}$ of an hour painting. How much time in all did Ralph spend on his project?

Equation: _____

Answer: _____

5. Solve these problems.

 $5\frac{1}{2} \cdot (7\frac{1}{2} - 3\frac{1}{2}) =$ _____

 $125 \div 5 - 2 \times 8 =$ _____

 $19 - 5 + 2 \cdot 3 =$ _____

6. Solve each problem and write the correct answer in simplest form.



- 7. Choose the answer that shows the decimals in order from least to greatest.
 - 0.06
 0.66
 0.66
 0.66
 0.66
 0.66
 0.66
 0.66
 0.66
 0.66
- 8. Find the greatest common factor of:

16 and 48 _____

9. Find the least common multiple of:

8 and 4 _____

10. Write these decimals as fractions.

0.6 = _____

0.88 = _____



11. Solve.

42.3 ÷ 3 = _____

908 ÷ 16 = _____

12. Choose the percents that are correctly written as decimals. There may be more than one correct answer.

- O 75% =7.5
- 25% = 0.25
- 12% = 0.012
- 8% = 0.08
- **13.** Write these as percents.

0.05 = ____% 1.725 = ____% 4/20 = ____%

PART C

Remember, show your work when possible.

1. Solve each problem and write the correct answer in simplest form.

$$\frac{5}{7} \times 4 = \underline{\qquad} \qquad \qquad \frac{2}{3} \times \frac{5}{6} = \underline{\qquad} \qquad \qquad 1 \frac{2}{3} \div \frac{2}{3} = \underline{\qquad}$$

$$\frac{8}{17} \div \frac{4}{17} = \underline{\qquad} \qquad 18 \frac{1}{2} \times 3 \frac{1}{3} = \underline{\qquad}$$

2. Find the answers.

The number 17 is what percent of 68? _____

The number 84 is 20% of what number?

What number is 35% of 264.8? _____

3. Evaluate the expression when x = 7.

24*x* – 7=_____

- $5x^2 5 + 15 =$ _____
- 2 (*x* + 2) + 2*x* = _____

- 4. Evaluate the expression.
 - 31² _____
- 5. Solve the following:

Last year you earned \$965 for baby-sitting. This year you earned 105% of last year's amount. How much did you earn this year?

A train covers 180 miles in 2 hours. How many miles can the train cover in 12 hours?

Sarah's garden has 25 tulips and 10 daffodils. What is the ratio of the number of tulips to the number of daffodils?

In the first week, Lois jogged 1 mile. In the second week, she jogged 3 miles. In the third week, she jogged 5 miles. In the fourth week, she jogged 7 miles. If Lois continues to increase the distance she jogs in this way, how many miles will she jog in the twentieth week?

A bus stops at every third corner. Another bus stops at every eighth corner. If both buses start at the

same place, how many blocks from the starting point will both buses stop?

6. Find the unit rate.

8 meters in 10 seconds _____

286 miles in 5 ½ hours _____

- 7. Solve each equation.
 - -9*k* = 36 *r*/-8 = 64
 - s 3 = -4 b + -2 = 5
- 8. Find the value for *n*.
 - -12 + 18 = n -4 13 = n

-18 ÷ 9 = *n*

-9 - (-5) = n

Part VI. Online Portion_

Your student will complete the online portion of the placement assessment. This assessment is not timed, but it will take your student 20 to 30 minutes to complete. Please make sure that you have a set of working headphones or speakers before you begin.

http://www.verticylearning.org/onlineportion