Verticy Learning

Please Fill In This Form Completely

_____   _____ _____ _____/_____/_____
Name of child   Boy/Girl   Age   Month   Day   Year of birth

_____   _____   _____ _____
Current grade   Date student will finish   Grade level requesting (grades 3–8)

_____   _____   _____ _____
Street address   City   State   Zip/Postal Code

_____   _____
Name of parent/guardian   Name of Learning Guide/teacher/tutor

(_____) _____ - _____   _____
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

☐ Part II. Composition   ☐ Part IV. Reading Comprehension ☐ Part VI. Online Portion

---

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:
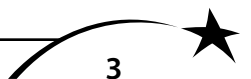
_____

_____

_____

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 member(s) by name, their relationship to this child, and describe their learning difference(s):

_____

_____

_____

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 educational settings, please list them and provide the duration of each:

_____

_____

_____

Has your child ever received special education services or academic tutoring?

☐ Yes   ☐ No

If yes, please describe:

_____

_____

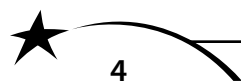What is the primary language spoken in the child's home? _____

List the child's siblings and ages: _____

_____

Name of Learning Guide (adult guiding lessons): _____

Relationship of Learning Guide to student: _____

How much time can the Learning Guide give daily? _____

How many children will be working with the Learning Guide? _____

SUBJECTS

Reading

Does your child enjoy having books read to him/her?

☐ Yes ☐ No ☐ Sometimes

Does your child comprehend what is being read to him/her?

☐ Yes ☐ No ☐ Sometimes

At what age did your child learn to read? _____

Does your child read for pleasure independently?

☐ Yes ☐ No ☐ Sometimes

If yes or sometimes, what type of books or magazines does your child prefer? _____

_____

Does your child comprehend what he/she is reading independently?

☐ Yes ☐ No ☐ Sometimes

Writing

Is your child…?

☐ Right-handed ☐ Left-handed ☐ Mixed

Does your child write in…?

☐ manuscript ☐ *cursive* ☐ Combination of both

Is your child's handwriting…?

☐ Neat and easy to read

☐ Legible but not very neat

☐ Illegible — difficult to read

Does your child have keyboarding skills?

☐ Yes ☐ No

If yes, how often and for what purpose does your child use the computer to communicate with words?
(i.e. composition writing, letter writing, online 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

Does your child have difficulty remembering the basic math facts?

☐ Yes ☐ No

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 (✓) 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 old 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 old 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

Scott smiled as he headed downstairs. It was his mother's special day, and he had hidden her gift in a box behind some bags in the basement. Scott had saved his allowance for six weeks. Then he had gone to his mother's favorite department store and asked the clerk to help him pick out a necklace. He even paid to have the necklace gift-wrapped. He couldn't wait to see his mother's face when she opened the beautiful present.

Scott went to the corner where the gift was hidden. But where were all the bags of old clothes? Scott looked all around. He was very worried and upset.

"Mom!" he called up the stairs. "Where are the bags of clothes that were down here?"

"Oh, that old junk? I had your father take them to the thrift store," she answered. "There are some rags in the laundry room if you're cleaning your bike."

Scott ran to the garage and hopped on his bike. He rode as fast as he could toward the thrift store. He was only halfway there when he saw his father driving toward home. It was too late. Scott felt like crying.

Scott's father pulled over and called, "Hey, Scott! Do you know anything about this?" He held up a long, thin, velvet box.

Scott grinned with relief. "I sure do, Dad. I sure do."

☐ Read Selection Independently   ☐ Listened to Selection

1. On what day does this story most likely take place?

○ Mother's Day

○ Fourth of July

○ Thanksgiving

○ Valentine's Day

2. What detail leads you to conclude what day it is?

○ Scott bought a necklace.

○ It was his mother's special day.

○ Scott's father had the box.

○ Scott was worried when he could not find the box.

3. Why does Scott feel like crying when he sees his father driving home?

○ Scott was lost.
○ He was relieved when he found his father.
○ He thought the necklace had been given away.
○ His dad did not stop.

4. Why does Scott smile when his father shows him the box?

○ He realizes the necklace is safe.
○ Scott thinks the box has a gift for him in it.
○ It is his father's gift to his mother.
○ It is a pretty box.

5. How does Scott get the money to pay for his mother's gift?

○ He used his birthday money.
○ He borrowed the money from his father.
○ He used the allowance he had saved.
○ He earned the money babysitting his cousin.

How do plants protect themselves from animals or people? The plants don't have to pull up their roots and run away—nature gave them special ways to protect themselves.

In a dry desert, the cactus stores water in its stem. To protect the water from animals, the cactus has needles on its waxy skin. If an animal gets too close, the needles may stick in its nose, paws, or mouth!

A rose has thorns. They may stick a person trying to pick the plant or an animal trying to eat it. Some other bushes have thorns or brambles that stick anyone who gets too close.

Some plants produce harmful substances to protect themselves. The oil on poison ivy leaves can give anyone who touches it an itchy rash. The poison hemlock has such a strong poison, it can kill anyone who eats it!

© McGraw-Hill

☐ Read Selection Independently   ☐ Listened to Selection

1. What would happen to an animal that tried to get water out of a cactus?

○ The animal would be poisoned.
○ The animal would be stuck by the plant's needles.
○ The animal would eat the plant and become sick.
○ The animal would lose its fur or feathers.

2. Why does poison ivy have harmful oil on its leaves?

   ○ The oil gives the plant a nice scent.

   ○ The oil helps the leaves soak up raindrops.

   ○ The oil helps the plant protect itself.

   ○ The oil gives the leaves a green color.

3. According to this passage, with what might a rose protect itself?

   ○ thorns

   ○ size and shape

   ○ height

   ○ color and smell

4. What is the best title for this passage?

   ○ How to Grow Plants

   ○ Plants in the Desert

   ○ All Plants Have a Nice Scent

   ○ How a Plant Stays Safe

5. What is the meaning of the word *stores* as it is used in this passage?

   ○ places where people shop

   ○ to gather and keep for use at a later time

   ○ windy, rainy weather

   ○ large pebbles or rocks

SECTION B

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.

© 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?

   ○ The lords and nobles liked living close to the sky.

   ○ It was often the only land available.

   ○ It kept them safer from enemy attacks.

   ○ It kept them safe from flood waters.

2. Castles were large in size because _____ .

   ○ dragons lived in them

   ○ all the townspeople could live inside the castles' walls during war time

   ○ the lords' children needed large spaces to play

   ○ the lords hosted large parties

3. What is a moat?

   ○ water that surrounds a castle

   ○ a very strong fence

   ○ a garden with vegetables and flowers

   ○ a type of boat

Part IV. Reading Comprehension

4. What is the best title for this passage?

   ○ Castles and Dragons

   ○ Kings Live in a Castle

   ○ Knights and Their Horses

   ○ 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.

   ○ 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?

   ○ when she was studying animals in college

   ○ when she was 23

   ○ when she traveled to Africa

   ○ when she was very small

2. What is the best definition of the word *observation* as it is used in this passage?

    ○ to watch with careful attention

    ○ a type of camp for chimpanzees

    ○ an area in Africa

    ○ to listen to music

3. Which statement is true about the way Jane studies chimpanzees?

    ○ Jane plays with chimpanzees.

    ○ Jane likes to be very loud while she is with the chimpanzees.

    ○ Jane watches the chimpanzees for hours.

    ○ Jane never writes about what she sees the chimpanzees doing.

4. Jane learns about the behavior of chimps by _____ .

    ○ using a remote control camera

    ○ talking to other people about chimps

    ○ reading books about chimps

    ○ watching the chimps in their environment

5. In the statement: "… it has lasted more than three decades," what does the word *decade* mean?

    ○ ten days

    ○ ten weeks

    ○ ten years

    ○ ten months

SECTION C

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."

© Number The Stars, by Lois Lowry

☐ Read Selection Independently   ☐ Listened to Selection

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

   ○ the sea was slowly flooding the area

   ○ the grass was dead and needed water

   ○ 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.

   ○ The apples in the tree had a disease.

   ○ The apples in the tree were rotten.

3. Based on references in the story, what season is it?

   ○ winter

   ○ spring

   ○ summer

   ○ fall

4. According to the story, who saw the kitten?

○ Mamma and Kirsti

○ Ellen, Kirsti, Mamma, and Annemarie

○ Annemarie and Kirsti

○ Ellen and Annemarie

5. Why does Ellen laugh?

○ She is happy being so close to the sea.

○ She is confused about the difference between a harbor and the sea.

○ She sees humor in the fact that a harbor was compared to the sea.

○ 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.

☐ Read Selection Independently   ☐ Listened to Selection

1. Why did de Oñate travel north from Central Mexico?

○ He was visiting Popé.

○ He wanted to settle new lands.

○ He was planning a revolt against the Spanish.

○ He wanted to stop the practice of Christianity.

2. Why did the Spanish want to convert the Pueblo to Christianity?

○ They thought that the Pueblo religion was incorrect.

○ They thought that the Pueblo wanted to be converted.

○ The Spanish thought they were being kind.

○ 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.

○ Their religion required them to practice in secret.

○ They thought that practicing their religion in secret would protect the Spanish from Popé.

○ The Spanish wanted them to practice their religion in secret.

4. What is the best title for this passage?

○ Native Americans Settle New Lands

○ The Spanish Try to Convert the Pueblo

○ Popé Attacks the Pueblo

○ The Friars Revolt Against the Spanish

5. What is the best definition of *mission* as it is used in this passage?

○ the business with which a group is charged

○ an operational task, usually assigned by a higher headquarters

○ missionary duty or work

○ a church settlement

Part V. Mathematics

This math placement test will help determine your strengths and weaknesses. Read each question carefully and all the answer choices before you answer. Skip and leave the answer blank if you do not understand the question. It is important to finish this test by yourself. You may not ask for help.

Please show all your work when possible.

PART A

1. Solve these problems.

$$\begin{array}{r} 692 \\ + 405 \\ \hline \end{array}$$

$$435 + 349 = \underline{\hspace{1cm}}$$

$$2{,}607 + 6{,}583 = \underline{\hspace{1cm}}$$

$$\begin{array}{r} 706 \\ - 355 \\ \hline \end{array}$$

$$\begin{array}{r} 3{,}504 \\ - 1{,}256 \\ \hline \end{array}$$

2. Solve these problems:

$$\begin{array}{r} 21 \\ \times\ 8 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ \times\ 5 \\ \hline \end{array}$$

$$\begin{array}{r} 236 \\ \times\ 2 \\ \hline \end{array}$$

$$\begin{array}{r} 325 \\ \times\ 3 \\ \hline \end{array}$$

3. Solve these problems:

$$2\overline{)48}$$

$$3\overline{)69}$$

$$5\overline{)575}$$

Part V. Mathematics

4. Which set of numbers is written in order from greatest to least?

   ○ 1,025 1,205 1,250 1,520
   ○ 1,520 1,025 1,250 1,205
   ○ 1,250 1,205 1,025 1,520
   ○ 1,520 1,250 1,205 1,025

5. 35 rounded to the nearest ten is _____.

6. 713 rounded to the nearest ten is _____.

7. 4,664 rounded to the nearest hundred is _____.

8. Fran has 477 stamps in her stamp collection. Mike has 683 stamps in his stamp collection. How many more stamps does Mike have than Fran?

   Number sentence (equation): _____

   Answer: _____

9. The Jackson family collected 354 cans of food for the food bank. The Frank family collected 299 cans of food for the food bank. How many cans of food did the families collect together?

   Number sentence (equation): _____

   Answer: _____

10. Solve these problems

    $\frac{3}{7} + \frac{1}{7} =$ _____ $\frac{4}{9} + \frac{2}{9} =$ _____ $\frac{3}{4} - \frac{1}{4} =$ _____ $\frac{5}{8} - \frac{3}{8} =$ _____

11. Write each fraction in simplest form

    $\frac{6}{9} =$ _____ $\frac{8}{12} =$ _____

PART B

Remember, show your work when possible.

1. Solve.

3,542 + 7,256 + 4,984 = _____ $1,420 − $720 = _____

$$\begin{array}{r} 804 \\ \times\ 219 \\ \hline \end{array}$$ $$\begin{array}{r} 3674 \\ \times\ \ \ 89 \\ \hline \end{array}$$ $$\begin{array}{r} 4321 \\ \times\ \ \ 96 \\ \hline \end{array}$$

$$5\overline{)6782}$$ $$96\overline{)3224}$$ $$8\overline{)3224}$$

2. Solve and put the answer in simplest form.

$$\begin{array}{r} \frac{1}{8} \\ +\ \frac{6}{8} \\ \hline \end{array}$$ $$\begin{array}{r} 17\frac{11}{13} \\ -\ 9\frac{7}{13} \\ \hline \end{array}$$ $$\begin{array}{r} \frac{2}{8} \\ +\ \frac{4}{8} \\ \hline \end{array}$$

Part V. Mathematics

$$\frac{8}{4}$$
$$+\frac{1}{4}$$
___

$$\frac{9}{10}$$
$$+\frac{3}{10}$$
___

$$2-\frac{3}{5}=$$

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

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

3. Choose the correct set of data that shows the mean, median, mode and range of the following set of numbers.
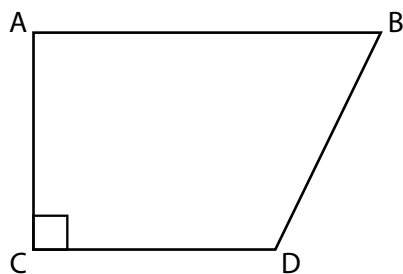
12 , 8, 7, 10, 8, 7, 8, 12

○ Mean – 72; Median – 16; Mode – 7; Range – 12
○ Mean – 72; Median – 9; Mode – 7; Range – 7
○ Mean – 9; Median – 8; Mode – 8; Range – 5
○ 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.
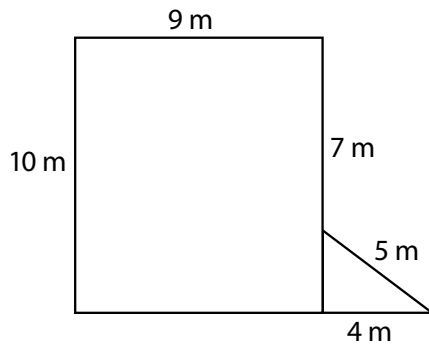

5. Name a pair of parallel line segments.

○ $\overline{AB}$ and $\overline{BD}$
○ $\overline{AC}$ and $\overline{BD}$
○ $\overline{AB}$ and $\overline{CD}$
○ $\overline{CD}$ and $\overline{BD}$

6. Name a vertical line segment.

○ $\overline{AB}$

○ $\overline{AC}$

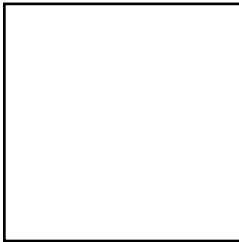○ $\overline{AD}$

○ $\overline{DB}$

Use the figure below to answer the following questions.

7. Find the perimeter of the figure. _____

8. What is the area of the triangle? _____

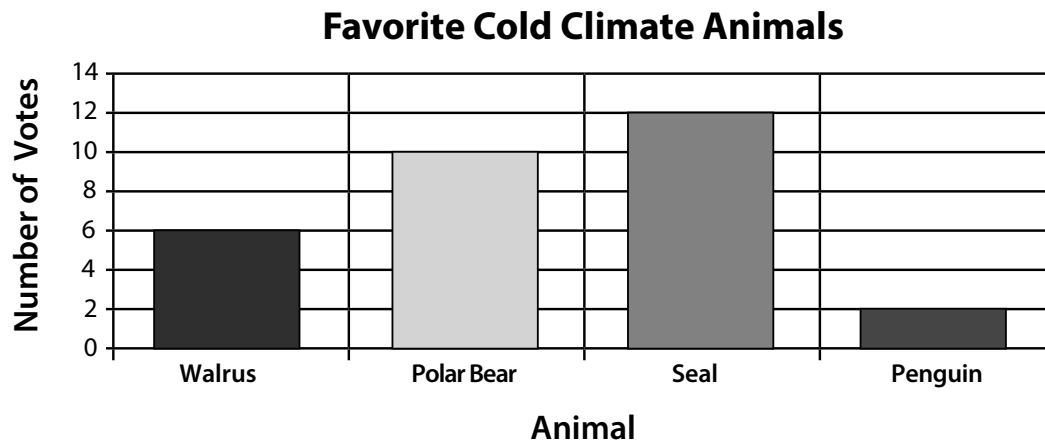**9.** Choose the correct number of lines of symmetry for this square.

○ 2

○ 4

○ 6

○ 8

0714

Placement Evaluation, Verticy Learning · *Part V. Mathematics* · · · **23**

Part V. Mathematics

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 C

Please show your work.

1. Solve these problems.

$$\begin{array}{r} 456 \\ \times 831 \\ \hline \end{array}$$

$$\begin{array}{r} 6280 \\ \times\ 283 \\ \hline \end{array}$$

$8959 \div 289 =$ _____

$21\overline{)52{,}576}$

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

○ $\dfrac{2}{4} = \dfrac{15}{30}$

○ $\dfrac{9}{27} > \dfrac{5}{6}$

○ $\dfrac{4}{3} > 1\dfrac{1}{4}$

○ $\dfrac{4}{12} < \dfrac{2}{24}$

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

$$\begin{array}{r} \frac{2}{3} \\ \frac{3}{4} \\ +\ \frac{5}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 11\frac{2}{3} \\ -\ \frac{8}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 6\frac{2}{3} \\ +\ 1\frac{1}{6} \\ \hline \end{array}$$

$4\dfrac{4}{5} - 3\dfrac{2}{5} =$ _____

$\dfrac{5}{8} + \dfrac{2}{3} =$ _____

Part V. Mathematics

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.

$\frac{2}{3} \times \frac{5}{6} =$ _____ $\frac{5}{7} \times \frac{4}{6} =$ _____

$\frac{2}{4} \times 12 =$ _____ $2\frac{1}{3} \times 2 =$ _____

$5 \times 4\frac{2}{3} =$ _____

7. Choose the answer that shows the decimals in order from least to greatest.

○ 0.06 0.6 0.602 0.66

○ 0.66 0.602 0.6 0.06

○ 0.6 0.06 0.66 0.602

○ 0.06 0.66 0.6 0.606

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 = _____

Part V. Mathematics

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.

○ 75% =7.5
○ 25% = 0.25
○ 12% = 0.012
○ 8% = 0.08

13. Write these as percents.

0.05 = _____%   1.725 = _____%   4/20 = _____%

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

CALVERT EDUCATION