

Using Illuminate Itembanks to Prepare for M-Step

Comparison of Item Types Available

Multiple Choice

Spring 15 Preview Training Student

Question 1 ?

Some letters of the alphabet are shown below.

I B L F

Which letter has two lines of symmetry?

(Practice Hint: Press the Cross-Off button to turn on the Cross-Off tool. Use the Cross-Off tool to cross off incorrect answer choices. Press the Pointer button when you are ready to answer the question.)

A I

B B

C L

D F

Review/End Test Pause Flag Next

Question 2 ← Previous Question 2 Next → Review / Finish

Harriet is making loaves of bread for her grandmother's bakery. She has $12\frac{1}{2}$ cups of flour. The recipe calls for $5\frac{1}{2}$ cups of flour to make 3 loaves of bread. Which equation can be used to find l , the total number of loaves of bread that Harriet can make?

A $12\frac{1}{2} \times 5\frac{1}{2} = \frac{l}{3}$

B $12\frac{1}{2} \div 5\frac{1}{2} = \frac{l}{3}$

C $12\frac{1}{2} \times \frac{l}{3} = 5\frac{1}{2}$

D $12\frac{1}{2} \div \frac{l}{3} = 5\frac{1}{2}$

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Michigan M-Step sample TEI types

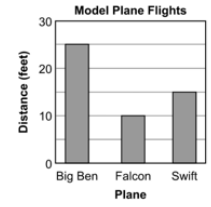
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Short Answer/Explicit Response

Spring 15 Preview Training Student



Question 2  ?

Rick throws three model planes into the air. He measures the distance, in feet, that each plane travels. The bar graph below shows the distance each plane traveled.




Write in the box how much farther Big Ben flew than Swift.
(Practice Hint: Press the Sticky Note button to turn on the Sticky Note tool. Use the Sticky Note tool to place a sticky note next to the graph to take notes.)
(Practice Hint: Point inside the box to enter your answer.)

[Numeric Only] feet

Michigan M-Step sample TEI types
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Question 9 

Read the question and type your response in the box provided. Your response will be saved automatically.

Claire is designing a treehouse on a coordinate plane that she would like her uncle to build for her. Each square on her coordinate plane represents 4 feet².

Claire's treehouse design includes a front porch plus a covered area. The points on the coordinate plane for the front porch of her treehouse are shown in the table below.

Front Porch:

Point	Coordinates
A	(1, -4)
B	(6, -4)
C	(6, -2)
D	(1, -2)

The rectangular-shaped covered area for the treehouse, represented by Points C, D, E, and F, will be connected to the front porch at Points C and D. If Claire is planning for the length of side DE to be twice the length of side AD, what will be the y-value of Point E?

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Short Answer/Explicit Response

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Question 6 ?

The area model below is used to solve a multiplication problem.

20×10	3×10
20×7	3×7

$200 + 30 + 140 + 21 = 391$

Fill in the multiplication problem that goes with this area model.

(Practice Hint: Press the Sticky Note button to turn on the Sticky Note tool. Use the Sticky Note tool to place a sticky note next to the model to take notes.)

(Practice Hint: Point inside the boxes to enter your answers.)

?

\times = 391

[Numeric Only] [Numeric Only]

Back Next

Question 2 ◀ Previous Question 2 Next ▶ 🗨️ 📄 ⏸️ 🔍 Review / ✓ Finish

Read the question and type your response in the box provided. Your response will be saved automatically.

The partially completed two way table shown below tells the number of 9th graders at Perryman High who walk, ride the bus, and/or drive to school.

	Male	Female	Total
Walk	16	23	
Ride the Bus		15	
Drive	19		
Total	54	46	

Based on the two-way table above, complete the table below to determine the total amounts.

	Total
Walk	<input type="text"/>
Ride the Bus	<input type="text"/>
Drive	<input type="text"/>

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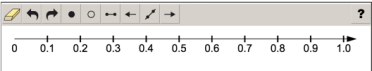
Number Line

Spring 15 Preview Training Student

Question 8 ?

Luke is reading a map. The map shows a library $\frac{7}{10}$ kilometer from his home. Click on the number line to place a point at the distance of the library from Luke's home. Then fill in the answer box with the decimal notation of the distance to the library.

(Practice Hint: Point on the number line to place a point.)
(Practice Hint: Point inside the box to enter your answer.)



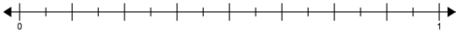
kilometers
(Numeric Only)

Review/End Test Pause Flag Back Next

Question 13 Previous Question 13 Next Review / Finish

Place a point on the number line where $\frac{5}{8}$ should be located.

Undo Start over



Save Response

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Drag and Drop

Spring 15 Preview
Question 7

Training Student

Clayton puts 18 books in a bookcase. He puts the same number of books on each shelf. Move groups of books to the bookcase to show how Clayton could arrange them.

(Practice Hint: Select and drag books onto the bookshelf.)

Review/End Test Pause Flag Back Next

Question 16

Organisms II

Look at the pictures below. Show the order of how a seed grows into a plant. Drag each picture into the space below in the correct order.

Undo Start over

Place answers here

1 2 3 4

Save Response

Drag and Drop -Order item type

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Multiple Part

Spring 15 Preview Training Student

Question 9 ?

Ms. Eva is putting nails into smaller boxes for student projects. She has 386 nails and 8 boxes. She will put the same number of nails into each box.

(Practice Hint: Point inside the boxes to enter your answers.)

A. What is the greatest number of nails that Ms. Eva can put into each box?

0/50

B. Ms. Eva found 2 more nails and now has 388 nails. Are there enough nails to put 1 more in each box now that she has 388 nails instead of 386 nails? Explain how the remainder from part A can help to answer the question.

0/1000

Review/End Test Pause Flag Back Next

Question 17 Previous Question 17 Next

Insects

Growth of a Butterfly

Stage	Number of Days
Egg	2
Larva	10
Pupa	6
Chrysalis	5
Adult	4

a. Look at the graph above.

Which stage of the butterfly's life cycle is the shortest?

Egg Larva Chrysalis Adult

What is the total number of days of the butterfly's life cycle?
A butterfly's life cycle is days.

b. Mrs. Smith brought in a sample of pond water from her backyard to her classroom. Her second grade students observed that there were several clumps of frog eggs floating among the plants in the container.

Predict what changes you might see in the frog eggs over time.

Save Response

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Selectable Text

Spring 15 Preview Training Student


Question 10 ?

(Practice Hint: Press the Line Guide button to turn on the Line Guide tool. Use the Line Guide tool by dragging the blue handle on the right to help guide you as you read. Turn off the Line Guide tool by pressing the Line Guide button again.)

A student is writing a research report about silent movies. Read the sentences from her report and the directions that follow.

The first motion pictures, or movies, were invented in the late 1800s. These were not movies that told a story, though. They were moving pictures of scenes from real life. The first movie that told a story was *The Great Train Robbery*. This movie was made in 1903, and it was about eleven minutes long. Like all early movies, it was a silent movie. This means that it had no sound.

Choose the source that would **most likely** give the student more information about the ideas she has written.

 ?

a book called *The Greatest Movies of the Last Ten Years*

a magazine article called "How to Make Your Own Movie"

a chapter called "Silent Movies" in the book *A History of Movies*

a dictionary that has the meanings of the words "silent" and "movie"

Review/End Test Pause Flag Back Next

Question 8 Q Review / Finish

From the sentences below, pick the statement that is true.

- All hexagons are triangles because they have at least 3 sides.
- All octagons are polygons because they have at least 3 sides.
- All parallelograms are rectangles because they have 2 sets of parallel sides.
- All rhombi are squares because they have 4 sides that are all the same length.

Save Response

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Selectable Text

Spring 15 Preview Training Student

Question 12 ?

(Practice Hint: Press the Magnifier button and select x 1.5 or x 2.0 to turn on the Magnifier tool. Use the Magnifier tool to enlarge the sentences. Use the gray bars to scroll back and forth. Turn off the Magnifier tool by pressing the Magnifier button again and selecting Off. Then, select a sentence to highlight it. To remove the highlighting, select it again or press the Eraser button.)

A student is writing a research report about the animals of Antarctica. Choose **one** sentence that has information the student can use to support the topic.

Antarctica is one of the most difficult places to live in the world. Antarctica is the coldest place on Earth. It is not surprising that very few people live there year-round. Even though few people live there, many people take trips to Antarctica each year. Some scientists go there to study the ice. Because Antarctica is almost all ice, it has few plants. Only two types of flowering plants are found there. **Many different types of penguins make their home in Antarctica.**

Review/End Test Pause Flag Back Next

Question 1 ← Previous Question 1 Next → Review / ✓ Finish

Click on a word or phrase to make a selection. Your response will be saved automatically.

A student is writing a research report for English class about William Shakespeare. The student wants to revise the draft to ensure it uses a formal style that is appropriate for a school report.

Click on the two sentences from the draft that should be revised to use more formal language.

William Shakespeare, otherwise known as "the Bard," was born in England in 1564. Relatively little is known about his personal life. However, most people are familiar with his work. It's totally amazing that he was able to produce such a ton of work during his life. Shakespeare wrote a number of poems and sonnets. He is probably best known, though, for his plays. There were 37 in all, including *As You Like It* and *King Lear*. These plays were performed on stage in Shakespeare's time. Now, they are still studied in many schools. **Reading them is a little hard on the head, but they're clearly examples of awesome writing.**

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Multiple Choice-Non-Traditional

Spring 15 Preview

Question 11

Training Student



(Practice Hint: Press the Highlighter button and select Use Highlighter to turn on the Highlighter tool. Use the Highlighter tool to mark important information. To remove highlighting and turn off the tool, press the Highlighter button and select Clear All. In this question, use the Highlighter tool to mark the student's opinion. Then, use the Cross-Off tool to strike through those notes that do not support the opinion.)

A student is writing a research report about riding bikes. He wrote an opinion in the report. Read the sentences from the student's report and the directions that follow.

To go from one place to another, riding a bike is better than riding in a car. If there is a traffic jam on the road, riders on the bike path next to the road can move faster. You do not have to put gas in a bike like you do in a car. Sometimes it is easier to park your bike close to the place where you are going.

The student took notes about riding bikes. Choose **two** notes that support the student's opinion.

- Ⓐ When riding a bike, you should always wear a bike helmet.
- Ⓑ The hardest part of learning to ride a bike is keeping your balance.
- Ⓒ Riding a bike is a lot faster than walking, especially if you need to go far.
- Ⓓ When the weather is rainy, you should ride in a car so you do not get wet.
- Ⓔ Riding your bike gives you exercise because your legs make the bike go.
- Ⓘ You spend more time outdoors when you are on a bike, and this is good for you.

Review/End Test

Pause

Flag

Back

Next

Question 3

Previous

Question 3

Next

Review / Finish

Jill has drawn a polygon on her graph paper with the following points:

- Point A is located at (2, 2)
- Point B is located at (4, 2)
- Point C is located at (4, 4)
- Point D is located at (2, 4)

When Jill showed her teacher the polygon, the teacher gave Jill directions and sent Jill back to her desk to continue working. Jill then added 2 to the y -values of Points C and D, plotted those as Points E and F, and connected those new points with Points A and B to create a new polygon. What assumptions can you make about the directions Jill's teacher gave to her about creating the new polygon? Select two assumptions that best apply.

- Ⓐ The teacher told Jill to halve the area of the first polygon.
- Ⓑ The teacher told Jill to double the area of the first polygon.
- Ⓒ The teacher told Jill to move the entire square 2 spaces up.
- Ⓓ The teacher told Jill to turn the square into a parallelogram.
- Ⓔ The teacher told Jill to make the new side length twice the length of side AB.

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Constructed Response

Spring 15 Preview Training Student

Question 14

(Practice Hint: Press the Highlighter button and select Use Highlighter to turn on the Highlighter tool. Use the Highlighter tool to mark what Ollie has done. To remove highlighting and turn off the tool, press the Highlighter button and select Clear All. Press the Sticky Note button to turn on the Sticky Note tool. Use the Sticky Note tool to place a sticky note next to the paragraph and to write ideas of what Ollie might do next in the story.)

A student is writing a story for a teacher about a boy who finds a bird's nest. Read a part of the story and complete the task that follows.

Every day, Ollie checked the nest in the bush. The nest held three eggs. Sometimes the mother bird was in the nest. When Ollie came close, she flew up into a nearby tree and watched him. He made sure not to get too close to the nest. He did not want to scare the mother bird away. Then, one day, Ollie heard faint sounds in the nest. As he came closer, the sounds got louder. Then he stopped in front of the bush and peeked down at the nest.

In **one** paragraph, continue the story by describing what Ollie does next.

0/1000

Review/End Test Pause Flag Back Next

Question 11

← Previous Question 11 Next →

Review / Finish

Rhino Review

The rhinoceros is a curious-looking animal. It can look fierce to some people, but lovable to others. It resembles an elephant, but it has no trunk. The elephant is the only mammal bigger than the white rhino. A rhino can weigh up to 8000 pounds. Did you know that there are five kinds of rhinos living today? These include the black rhino and white rhino, which live in Africa. They have two horns. The other three rhino species live in Asia. They are the Javan, the Indian, and the Sumatran. The Indian and the Javan have one horn. Rhinos use their horns in battles with their enemies. Lions, tigers, and hyenas prey on them.

A long time ago, rhinos lived in America and Europe, too. At that time, people began hunting them. Hunters would take their horns. Some cultures believed that a rhino horn ground into powder would break fevers and help people recover from food poisoning. Therefore, the hunters would hunt the rhinos and use the horns for medicine. Nobody knows why some cultures believed this. Because of the hunting, there were fewer black rhinos than any other kind. As a result, it became illegal to hunt rhinos. Rhinos are not in as much danger now that hunting for their horns is illegal. Today, there are 3610 black rhinos living in Africa. The rhino is flourishing again. It is important to keep protecting them. Rhinos are an important part of the animal kingdom.

Read the question and type your response in the box below the question. Your response will be saved automatically.

What conclusions can be drawn about why rhinos in Africa need protection? Support your answer with details from the text.

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Passage with Non-Traditional SR

Spring 15 Preview Training Student

Question 15

(Practice Hint: There are two passages included on this screen. Use the scroll bar to read both passages.)

(Practice Hint: Use the Line Guide tool by selecting it and dragging the blue handle on the right to help you as you read. You can also use it on the question. Just pull the handle over to the question. Turn off the Line Guide tool by pressing the Line Guide button.)

The Legend of the Black Fish

based on a Native American legend

Long ago, a young man named Natsilane lived on the Pacific Northwest Coast. Natsilane had many talents, including woodcarving. Some people were jealous of Natsilane's talents because they thought he would be chosen as the next chief.

Natsilane could carve just about anything out of any type of material including rock and wood. His favorite material to work with was wood, and his wood carvings were of people, plants, and animals. Animals were his favorite to carve. He often went into the forest to observe animals so his carvings would be as realistic and lifelike as possible.

One day, Natsilane decided he wanted to observe water animals more closely than from just standing on the shore. He took a canoe and traveled out into the water. Soon he saw some fish swimming next to his canoe. Then he saw a turtle, which he followed until he was close to an island. Natsilane decided to stop at the island and **stare** at the fish when the canoe

(Practice Hint: Choose the Cross-Off button to turn on the Cross-Off tool. Use the Cross-Off tool to cross off incorrect answer choices. Choose the Pointer button when you are ready to answer the question.)

Which words **best** describe Natsilane in "The Legend of the Black Fish"? Choose **two** answers.

- A kind
- B greedy
- C tough
- D talented
- E boastful

Review/End Test Pause Flag Back Next

Question 13 ◀ Previous Question 13 Next ▶ Review / Finish

Mammals

Humans, cats, dogs, cows, rhinos, whales, and horses are all mammals. Mammals can be all different sizes and can be found all over the world. What is a mammal? A mammal is a type of animal. Mammals share some things in common.

All mammals have hair or fur on their bodies. It is like the hair on our head, and the fur of a soft kitten. This hair or fur helps keep the animal warm. Not all mammals have fur their entire lives. Some whales will only have hair before they are born.

All mammals are vertebrates. This means that they have backbones, or spines.

All mammals are warm-blooded. This means that they are always the same temperature. Mammals must produce their own heat when it is cold. They must also cool themselves down when it is too hot. This lets mammals live in almost any part of the world.

All mammals take very good care of their babies. They make milk to feed their babies. Mammals spend a lot of time taking care of and protecting their babies, too.

All mammals have big brains. This means that they are very smart. Humans, dolphins, elephants, chimpanzees, and pigs are some of the smartest animals in the world, and they are all mammals!

Now you know all about mammals! Next time you are at the zoo, use what you know to guess which animals are mammals.

What things do all mammals have in common? Choose **TWO** that are correct.

- A All mammals have backbones.
- B All mammals are dogs.
- C All mammals have fur or hair.

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Passage with Selectable Text

Spring 15 Preview

Question 16



Training Student



his name. This time he saw a sea lion that seemed to be talking to him.

"Natsilane, I need your help. I have an injured flipper. If you help me, I will return you safely to your home," said the sea lion.

Natsilane healed the sea lion's flipper, and the sea lion safely returned Natsilane home, just as promised.

After he returned home, Natsilane began carving a large, black fish from wood. After he finished the carving, Natsilane released it into the water, wishing that it would always be helpful and friendly to people just as the sea lion had been to him. To Natsilane's surprise, his carved black fish came to life!

The black fish was very friendly and stayed in the water where Natsilane lived. Natsilane visited the black fish every day. He and his friends often swam with the big, black fish.

This is how the first black fish, orca whale, came to be. And this is why orcas living in the wild do not harm humans.

Orca Rescue

Today was a special day for me. My grandpa and I spent the day on the open sea. We like spending time together, but today something unplanned happened.

More Text Below

(Practice Hint: When you select a sentence in the paragraph below, the sentence will become highlighted. If you want to remove the highlighting from only one answer, select it again. Use the Eraser tool to remove all of the highlighting from all of your answers.)

Read the paragraphs from "The Legend of the Black Fish." Then, choose the two sentences that show a central message of the passage.



Natsilane healed the sea lion's flipper, and the sea lion safely returned Natsilane home, just as promised.

After he returned home, Natsilane began carving a large black fish from wood. After he finished the carving, Natsilane released it into the water, wishing that it would always be helpful and friendly to people just as the sea lion had been to him. To Natsilane's surprise his carved black fish came to life!

Review/End Test

Pause

Flag

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Michigan M-Step sample TEI types

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Question 6

at Present

Question 6

Next >

Review / Flag

Review / Flag

Thief

Lulu and Kate had a very thoughtful Aunt Mills, and on one very chilly day in the middle of winter, when the snow was still on the ground, she brought them a New Year's gift. Father and Mother thanked Mills, while Kate opened the gift. Lulu, on her younger sibling open the gift, while she observed from the chair. Lulu was just as thoughtful as their aunt. It was a little wooden frame for a bed to be on, but there was no bed on it, and no pillow, and there were no sheets, nor anything else of the sort. Their aunt informed the youngsters that they must make the bedding for their dolls, for it would help them learn to sew.

Their aunt had soon returned to her home, but she left her little wooden dolls for the house. One of the dolls were a pink silk frock, and the other had on a blue frock. Accordingly, their mother gave them some linen to make the sheets, and to make a case for each of the beds, and for the pillows. Lulu and Kate said to each other, "What shall we sew into the beds to make them as snugly as ours?" Lulu replied, "Mother sews some linen in a corner!" and she had her to bend an angle to put into the beds." However, Mother thought it would be better to stuff the beds with wool instead. The little girls said their mother that they'd rather have the linen. As soon as they finished with the beds, they looked about in their room, imagining what it would be like to lie in the handsome dollhouse.

On the subsequent day, when playtime occurred, the little girls scurried into the room where all their toys were neatly kept. Kate went on to the corner where the dolls' houses stood, for they had a place for everything, and tried to keep everything in its place. On the contrary, the door of the house stood open, unlike they left it. As soon as Kate looked in, she cried out for Lulu in great haste. "O Lulu! Come, quick! Quick! There has been a thief in our dolls' house, and here are our poor dolls lying on the floor!"

Father then enquired about below, Lulu scampered to look at the thing that caused her sibling such alarm. She saw the two dolls, each lying on the floor in its own room, and the rooms all strewn with bits of linen. Lulu and Kate fled up the dolls with great care, but they were not hurt, for the beds were not far from the floor, and so they had not had a very bad fall. It was evident that some thief had been in the house, for the chairs and tables were not in their right places, and nearly all the linen that had been in the beds had disappeared. Then Lulu asked, "Who could the thief have been? And how did he get in?" They called to their mother and cried, "There has been a thief in our dolls' house!"

When Mother looked inside and saw the linen lying about on the floor, she laughed hysterically. She said, "Yes, there has been a thief! I can see that some poor little hungry mouse has been in your house, and has eaten up the linen that was in the beds. My only little girls!"

So their mother gave them some more linen to make new cases for the beds, and they set to work again that same day. However, they took care this time to stow the beds and the pillows with pleasantly smooth wool that the hungry mouse might not eat up when he desired to eat his supper.

Photo: Corbis

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Click on a word or phrase to make a selection. Your response will be saved automatically.
Click on the two sentences from the first paragraph that best support that Lulu is caring.

Lulu and Kate had a very thoughtful Aunt Mills, and on one very chilly day in the middle of winter, when the snow was still on the ground, she brought them a New Year's gift. Father and Mother thanked Mills, while Kate opened the gift. Lulu, on her younger sibling open the gift, while she observed from the chair. Lulu was just as thoughtful as their aunt. It was a little wooden frame for a bed to be on, but there was no bed on it, and no pillow, and there were no sheets, nor anything else of the sort. Their aunt informed the youngsters that they must make the bedding for their dolls, for it would help them learn to sew.

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Passage with Constructed Response

Spring 15 Preview Training Student

Question 20

his name. This time you will see a sea lion that seemed to be talking to him.

*Natsilane, I need your help. I have an injured flipper. If you help me, I will return you safely to your home," said the sea lion.

Natsilane healed the sea lion's flipper, and the sea lion safely returned Natsilane home, just as promised.

After he returned home, Natsilane began carving a large, black fish from wood. After he finished the carving, Natsilane released it into the water, wishing that it would always be helpful and friendly to people just as the sea lion had been to him. To Natsilane's surprise, his carved black fish came to life!

The black fish was very friendly and stayed in the water where Natsilane lived. Natsilane visited the black fish every day. He and his friends often swam with the big, black fish.

This is how the first black fish, or orca whale, came to be. And this is why orcas living in the wild do not harm humans.

Orca Rescue

Today was a special day for me. My grandpa and I spent the day on the open sea. We like spending time together, but today something unplanned happened.

More Text Below

(Practice Hint: Press the Magnifier button and select x 1.5 or x 2.0 to turn on the Magnifier tool. Use the Magnifier tool to enlarge the passage and question. You can use the gray bars to scroll back and forth. Turn off the Magnifier tool by pressing the Magnifier button again and selecting Off. Note that when you are ready to answer the question, you can start typing in the empty box with the magnifier on or off.)

Both passages focus on creatures from two different species helping each other. Write a response explaining how both passages show ways in which people and animals help each other. Use evidence from both passages to support your response.

050000

Review/End Test Pause Flag Back

Question 11

Previous Question 11 Next

Review / Finish

Rhino Review

The rhinoceros is a curious-looking animal. It can look fierce to some people, but lovable to others. It resembles an elephant, but it has no trunk. The elephant is the only mammal bigger than the white rhino. A rhino can weigh up to 8000 pounds. Did you know that there are five kinds of rhinos living today? These include the black rhino and white rhino, which live in Africa. They have two horns. The other three rhino species live in Asia. They are the Javan, the Indian, and the Sumatran. The Indian and the Javan have one horn. Rhinos use their horns in battles with their enemies. Lions, tigers, and hyenas prey on them.

A long time ago, rhinos lived in America and Europe, too. At that time, people began hunting them. Hunters would take their horns. Some cultures believed that a rhino horn ground into powder would break fevers and help people recover from food poisoning. Therefore, the hunters would hunt the rhinos and use the horns for medicine. Nobody knows why some cultures believed this. Because of the hunting, there were fewer black rhinos than any other kind. As a result, it became illegal to hunt rhinos. Rhinos are not in as much danger now that hunting for their horns is illegal. Today, there are 3610 black rhinos living in Africa. The rhino is flourishing again. It is important to keep protecting them. Rhinos are an important part of the animal kingdom.

Read the question and type your response in the box below the question. Your response will be saved automatically.

What conclusions can be drawn about why rhinos in Africa need protection? Support your answer with details from the text.

B I U

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Michigan M-Step sample TEI types
http://michigan.gov/mde/0,4615,7-140-22709_70117-350540--,00.html

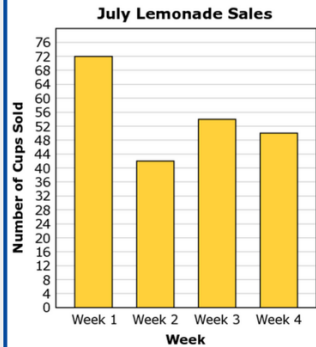
Explicit Constructed Response

Mathematics Grade 3 Sample Performance Task

Training Student

Question 1

Jaleen has a lemonade stand. The bar graph below shows the number of lemonade cups sold in each of four weeks in July.



Use the July Lemonade Sales bar graph to complete this task.

The bar graph shows how many cups of lemonade Jaleen sold in July. Complete the table to show how many cups Jaleen sold each week.

July Lemonade Sales	
Week	Cups Sold
1	<input type="text"/>
2	<input type="text"/>
3	<input type="text"/>
4	<input type="text"/>

Review/End Test Pause Flag Next

Question 3 Previous Question 3 Next Review / Finish

Read the question and type your response in the box provided. Your response will be saved automatically.

The two-way table shows the number of students at Lee High School who have siblings.

	Have Siblings	Do Not Have Siblings	Total
9 th Graders	<input type="text"/>	<input type="text"/>	176
10 th Graders	115	87	202
11 th Graders	74	<input type="text"/>	183
12 th Graders	90	<input type="text"/>	<input type="text"/>
Total	325	<input type="text"/>	761

Complete the table to show the amounts that go in each of the boxes.

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Michigan M-Step sample TEI types

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Select Item

Spring 15 Preview Training Student

Question 5 ?

A scientist is finding the mass of food to list on packaging. A box of pasta has a mass of 400 grams when rounded to the nearest 100. Choose all of the boxes that could be the mass of the box of pasta.

(Practice Hint: Use the Pointer tool to choose all of the correct answers.)

?

480 g	362 g	320 g	454 g	435 g
-------	-------	-------	-------	-------

Review/End Test Pause Flag Back Next

While no exact item type is available at this time, the Selectable Text item type available in Illuminate would be a similar concept.

Michigan M-Step sample TEI types

http://michigan.gov/mde/0,4615,7-140-22709_70117-350540--,00.html

Bar Graph

Spring 15 Preview Training Student
Question 3 ?

Lars is finding different types of minerals. The table below shows how many minerals he finds.

Minerals Found	
Type of Mineral	Number Found
K-spar	4
Mica	2
Quartz	8
Zinc	6

Click to make a bar graph showing the total number of each kind of mineral Lars finds.
(Practice Hint: Point on the graph to make the bar heights.)

Review/End Test Pause Flag Back Next

While no exact item type is available at this time, the Selectable Text item type available in Illuminate would be a similar concept.

Michigan M-Step sample TEI types

http://michigan.gov/mde/0,4615,7-140-22709_70117-350540--,00.html

Matching

Spring 15 Preview Training Student

Question 4 ?

Match each fraction below with the model or models showing an equal fraction of shaded bars.

(Practice Hint: Select a fraction on the left side and a blue box appears. Then select its match on the right side and a blue line connects them. Some fractions may have no matches, and some may have more than one. To undo the last match, press the Undo button. To undo all the matches, press the Eraser button.)

$\frac{2}{8}$ $\frac{2}{6}$ $\frac{1}{4}$ $\frac{3}{6}$

Review/End Test Pause Flag Back Next

While no exact item type is available at this time, the Drag and Drop item type available in Illuminate would be a similar concept.

Michigan M-Step sample TEI types

http://michigan.gov/mde/0,4615,7-140-22709_70117-350540--,00.html

Illuminate Item Types Available

Select Item Types

x

- Item Types
- Multiple Choice / Selected Response (one correct)
 - Non-Traditional Selected Response (select all, T/F, Y/N, C/I)
 - Evidence Based Selected Response
 - Selectable Text
 - Select Dropdown
 - Constructed Response
 - Explicit Constructed Response
 - Drawing Response
 - Math Equation Response
 - Multi-Part
 - Drag and Drop - Classify
 - Drag and Drop - Order
 - Graphing - Number Line
 - Graphing - Place Point
 - Graphing - Place Line
 - Matching Tables

Evidence Based Selected Response

Question 2

← Previous Question 2 Next →

Q Review / ✓ Finish

Big Appetites
Have you ever been really hungry? That is, hungry enough to eat two hundred pounds of food? The answer is most likely not. Well, there is one animal that eats that much food every day. Have you guessed it yet? It's an Asian elephant. Can any other animal eat that much food? These elephants eat all the time. They eat for almost twenty hours each day. That's a lot!

Wild Food
These giant beasts can eat up to 200 pounds of plants each and every day. Elephants are herbivores. That means they only eat plants. What type of plants do they like? Most elephants could be found eating grass, shrubs, fruit, branches, and twigs. They sure do like their veggies!

Hay There
Some elephants may eat much differently. Elephants that live in a zoo are given other types of food. Normally, they would not be able to find it on their own in the wild. In zoos, they are fed hay instead of grass. They eat over one hundred pounds of it each day. That is way more than any other animal can eat.

Sticky Treats
Have you ever seen an elephant eating peanut butter? That sounds a little strange. Well, zoo keepers have found that this sticky treat is a favorite of their big grey friends. In a small zoo in Hawaii, the keepers even give them pineapple and popcorn. They surely want their popcorn bowls refilled!

Large animals need to eat a lot of food. Most people know that they eat a lot. Not many people know how much they eat. When all is said and done, these big guys sure do have a full-size appetite!

This question has two parts. First, answer part A. Then, answer part B.

Part A:
What conclusion about the author's opinion about elephants is supported by the passage?

- A Elephants mainly eat strange foods, which makes them strange.
- B Elephants are interesting because they spend most of their life eating.
- C Elephants like to eat fruit more than other plants.
- D Elephants eat better food in the wild than at zoos.

Part B:
Which detail from the passage BEST supports your answer in part A?

- A These elephants eat all the time. They eat for almost twenty hours each day.
- B Most elephants could be found eating grass, shrubs, fruit, branches, and twigs.
- C Normally, they would not be able to find it on their own in the wild. In zoos, they are fed hay instead of grass.
- D Have you ever seen an elephant eating peanut butter? That sounds a little strange.

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Select Dropdown

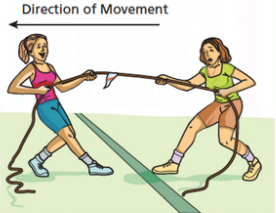
Question 5

← Previous Question 5 Next →

Review / Finish

Tug of War

Two students are holding a rope. They are trying to move each other over a line.



Direction of Movement

Which describes the forces caused by the students?

The students are with forces.

- pushing
- pulling

Save Response

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Math Equation Response

Question 4

← Previous Question 4 Next →

Q Review / ✓ Finish

Read the question and enter your response in the box provided. Use the tools and your keyboard to construct your response.

A set of numbers is shown below.

Complete the table by writing each of these numbers in simplified complex number form.

Number	Complex Number
$-2\sqrt{-6}$	
$\sqrt{-49}$	
$3\sqrt{-20}$	
$\sqrt{2}\sqrt{-32}$	

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Mathematical symbols and functions menu:

- + $\frac{x}{y}$ π sin i
- (x) \sqrt{x} cos
- × x^2 $\sqrt[y]{x}$ tan
- ÷ $|x|$ \angle arcsin
- = x^{super} i arccos
- ≈ $\overline{\text{over}}$ \circ arctan
- ± ∞
- < θ
- > Δ
- ≤ ϕ
- ≥ $\$$

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Drag and Drop - Classify

Question 6

◀ Previous Question 6 Next ▶

🗨️ 🗨️ ⏸️ 🔍 Review / ✓ Finish

Why are different phases of the Moon visible from Earth?

Undo Start over

revolves around , and the Sun's light.

absorbs Earth reflects The Sun

The Moon

Save Response

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Graphing - Place Point

Question 8

From his house, Mark walks to the library, and then to the park.

The library is located 1 mile from his house and the park is located 2 miles from the library. He walks at a constant speed of 2 miles per hour.

Plot the points on the grid that represent:

- when Mark is at his house,
- when Mark is at the library, and
- when Mark is at the park.

Distance Traveled (mi)

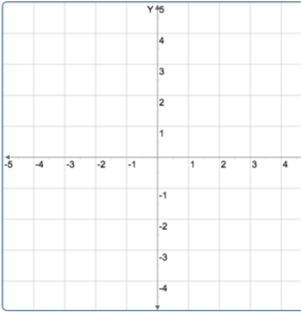
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Graphing - Place Line

Question 7

Graph the equation $y = \frac{1}{2}x + 1$.



Save Response

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Matching - Tables

Question 10

Calculator

Jane has a full deck of cards. She randomly selects one card from the deck 20 times. Each time she selects a card she records the color of the card, replaces the card and shuffles the deck. Her results are summarized in the table below.

	Red Card	Black Card
Number of times	14	6

Based on these results, determine whether each statement describes the expected outcome for the next card she randomly selects. Select True or False for each statement

Undo Start over

Statement	True	False
The expected probability that the next card will be red is 0.70.	<input type="radio"/>	<input type="radio"/>
The expected probability that the next card will be black is 0.60.	<input type="radio"/>	<input type="radio"/>
It is more likely that Jane will select a red card than a black card.	<input type="radio"/>	<input type="radio"/>

Save Response

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