Math
Released Item 2019

Algebra I

University Campus Event
VH150250
Anchor Set
A1–A7

With Annotations
A university organizes an event in which all tenth-grade students from three school districts are invited to visit the university campus. Each school district serves students from kindergarten through twelfth grade. The organizers expect 10% of the invited students to attend.

**Part A**

Write an equation that can be used to predict the total number of tenth-grade students expected to attend. Describe the assumptions you used to determine your equation.

Enter your equation and your work in the space provided.

**Part B**

This table shows information about the districts from which students will be invited.

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<thead>
<tr>
<th>District Name</th>
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<tbody>
<tr>
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<td>75,481</td>
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<tr>
<td>Baltimore City</td>
<td>83,800</td>
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</table>

Estimate the total number of tenth-grade students expected to visit the university.

Enter your answer and your work in the space provided.
<table>
<thead>
<tr>
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<th>Description</th>
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</table>
| 1     | Student response includes the following element.  
      - **Modeling component** = 1 point  
        - An equation is constructed to describe the situation  
Sample Student Response:  
Let $D$ represent the total number of students in a district and let $V$ represent the number of visitors expected from that district. Then $V = \frac{1}{13} \times 0.10 \times D$.  
Note: An alternate acceptable equation is $V = 0.10 \times D$ where $D$ represents the students invited (10th grade). Or other valid response. |
<p>| 0     | Student response is incorrect or irrelevant. |</p>
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| 2     | Student response includes the following 2 elements.  
- **Computation component** = 1 point  
  - Valid estimate and work based on the constructed equation  
  Sample Student Response:  
  The total number of students from the chart is 168,303. If I evaluate my equation for \( D = 168,303 \), I get a value of 1294.64.  
  \[ V = (9,022 + 75,481 + 83,800)/13 \times 0.10, \]  
  which is about 1,295 visitors.  
- **Reasoning component** = 1 point  
  - The assumptions used when writing the equation are explained  
  Sample Student Response:  
  Since the given value is the total number of students in a district and the visitors are tenth-grade students, the total number of students should be divided by the number of grades, which is 13. This assumes that there are an equal number of students in each grade.  
  Or other valid response. |
| 1     | Student response includes 1 of the 2 elements. |
| 0     | Student response is incorrect or irrelevant. |
A university organizes an event in which all tenth-grade students from three school districts are invited to visit the university campus. Each school district serves students from kindergarten through twelfth grade. The organizers expect 10% of the invited students to attend.

**Part A**

Write an equation that can be used to predict the total number of tenth-grade students expected to attend. Describe the assumptions you used to determine your equation.

Enter your equation and your work in the space provided.

\[ y = 0.1x \]

If \( y \) is representing the number of students who attend, and \( x \) is the number of 10th grade students invited, then it would be 10%, or \( 0.1 \) times \( x \) in order to see how many students would attend.

**Part B**

This table shows information about the districts from which students will be invited.

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Estimate the total number of tenth-grade students expected to visit the university.

Enter your answer and your work in the space provided.

Assuming that the number of students in each grade is equal.

Allegany 694 students
Anne Arundel 5806 students
Baltimore 6446 students

\[
694 + 5806 + 6446 = 12946
\]

\[
\frac{12946}{10} = 1294.6
\]

\[ y \approx 1295 \] students will visit the university.
Anchor Paper 1
This response receives full credit. It includes each of the three required elements.

Part A: Score Point 1
- The response includes a properly constructed equation with correctly defined variables (y=.1x, If y is representing the number of students who attend, and x is the number of 10\textsuperscript{th} grade students invited).

Part B: Score Point 2
- The response includes a correct assumption used when making the equation (Assuming that the number of students in each grade is equal).
- The response includes a valid estimate and operations based on the equation given (694+5806+6446=12946, 12946/10=1294.6, y≈1295 students will visit the university).

The response indicates the assumption of an equal number of students in each grade.
A university organizes an event in which all tenth-grade students from three school districts are invited to visit the university campus. Each school district serves students from kindergarten through twelfth grade. The organizers expect 10% of the invited students to attend.

**Part A**

Write an equation that can be used to predict the total number of tenth-grade students expected to attend. Describe the assumptions you used to determine your equation.

Enter your equation and your work in the space provided.

\[ a = t \times 10\% \]
\[ a = \text{attendance} \]
\[ t = \text{number of tenth graders} \]

**Part B**

This table shows information about the districts from which students will be invited.

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Estimate the total number of tenth-grade students expected to visit the university.

Enter your answer and your work in the space provided.

\[ 9022 + 17481 + 83800 = 110303 \]
\[ t = 110303 \div 13 \]
\[ t = 8485 \]
\[ a = 8485 \times 10\% \]
\[ a = 849 \]

there will be 849 tenth graders at the event
Anchor Paper 2
This response receives partial credit. It includes two of the three required elements.

Part A: Score Point 1
- The response includes a properly constructed equation with correctly defined variables (a=t×10%, a=attendance, t= number of tenth graders).

Part B: Score Point 1
- The response includes a correct assumption used when making the equation (t=110303÷13).

The response uses an incorrect number to calculate the total number of students in all three districts (17481 is used instead of 75481). Therefore, no credit is earned for element three (valid operations), but the assumption of dividing the total number of students by 13 is correct and does receive credit for element two.
A university organizes an event in which all tenth-grade students from three school districts are invited to visit the university campus. Each school district serves students from kindergarten through twelfth grade. The organizers expect 10% of the invited students to attend.

Part A

Write an equation that can be used to predict the total number of tenth-grade students expected to attend. Describe the assumptions you used to determine your equation.

Enter your equation and your work in the space provided.

\[
\frac{1}{10}x = t
\]

\[ t = \text{total amount of students expected to come} \]

\[ x = \text{total amount of tenth graders in all three districts} \]

I’m assuming that, since all tenth graders are invited and they expect ten percent to come, that one tenth of the tenth graders will attend.

Part B

This table shows information about the districts from which students will be invited.

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Estimate the total number of tenth-grade students expected to visit the university.

Enter your answer and your work in the space provided.

\[
9022 + 75481 + 83800 = 168303
\]

\[
168303 \div 10 = 16830.3
\]

16830.0 \approx 16830

About 16830 students are expected to attend.
Annotation

Anchor Paper 3
This response receives partial credit. It includes one of the three required elements.

Part A: Score Point 1
• The response includes a properly constructed equation with correctly defined variables (1/10x=t, t= total amount of students expected to come, x=total amount of tenth graders in all three districts).

Part B: Score Point 0
The response states an assumption that is given in the prompt and, therefore, does not receive credit for element two (I’m assuming that, since all tenth graders are invited and they expect ten percent to come, that one tenth of the tenth graders will attend). The response makes an incorrect estimate for the number of tenth graders expected to attend, earning no credit for element three.

Note: No credit can be earned for element three for finding ten percent of the total student population and using that as an answer for ten percent of the tenth grade students.
A university organizes an event in which all tenth-grade students from three school districts are invited to visit the university campus. Each school district serves students from kindergarten through twelfth grade. The organizers expect 10% of the invited students to attend.

**Part A**

Write an equation that can be used to predict the total number of tenth-grade students expected to attend. Describe the assumptions you used to determine your equation.

Enter your equation and your work in the space provided.

\[
\left( \frac{x}{12} \right) \cdot 90 = y
\]

Since the schools have every grade, you would have to divide the total amount of students to the twelve grades, then you have the average amount of 10th graders. Then you divide that number by 90% because only 10% of 10th grade students are expected to attend. And that's how you get your final answer.

**Part B**

This table shows information about the districts from which students will be invited.

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Estimate the total number of tenth-grade students expected to visit the university.

Enter your answer and your work in the space provided.

\[
\frac{9,022}{12} = 751.83 \approx 752
\]
\[
\frac{75,481}{12} = 6290.083 \approx 6291
\]
\[
\frac{83,800}{12} = 698.333 \approx 699
\]
\[
\frac{752 + 6291 + 699}{90} = \frac{7742}{90} = 86.0222 \approx 87
\]

Approximately 87 students will be expected to visit the university.
Anchor Paper 4
This response receives partial credit. It includes one of the three required elements.

Part A: Score Point 0
- The response does not provide a correct equation; therefore, no credit is earned for element one.

Part B: Score Point 1
- The response includes a correct assumption used when making the equation (Since the schools have every grade, you have to divide the total amount of students to the twelve grades, then you have the average amount of 10th graders).

The response contains a mathematical error: 83800/12 does not equal 698.333, it equals 6983.33. Therefore, no credit is earned for element two.
A university organizes an event in which all tenth-grade students from three school districts are invited to visit the university campus. Each school district serves students from kindergarten through twelfth grade. The organizers expect 10% of the invited students to attend.

**Part A**

Write an equation that can be used to predict the total number of tenth-grade students expected to attend. Describe the assumptions you used to determine your equation.

Enter your equation and your work in the space provided.

Tenth graders in school equal $T$. divide $T$ by .10 to estimate number of tenth graders attending college thing. $A$ equals attending.

\[ T \div .10 = A \]

**Part B**

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Estimate the total number of tenth-grade students expected to visit the university.

Enter your answer and your work in the space provided.

For All countys you can assume that about $\frac{1}{12}$ of the county is tenth graders. Take that number and multiply it by 0.10

Allengany count $y = 75$

AA count $y = 629$

Bc count $y = 698$
Anchor Paper 5
This response receives partial credit. It includes one of the three required elements.

Part A: Score Point 0
The response does not provide a correct equation; therefore, no credit is earned for element one. The response indicates to divide the number of tenth grade students by 0.10 when the correct equation would multiply the number of tenth grade students by 0.10.

Part B: Score Point 1
• The response includes a correct assumption used when making the equation (For All counties you can assume that about 1/12 of the county is tenth graders).

The response gives an incomplete estimate for the number of tenth graders attending by not totaling the three districts estimates together. Therefore, no credit is earned for element two.
A university organizes an event in which all tenth-grade students from three school districts are invited to visit the university campus. Each school district serves students from kindergarten through twelfth grade. The organizers expect 10% of the invited students to attend.

Part A
Write an equation that can be used to predict the total number of tenth-grade students expected to attend. Describe the assumptions you used to determine your equation.

Enter your equation and your work in the space provided.

\[0.10 \times 30 = 3\]
This equation shows that 30 tenth graders should be attending the university campus.

Part B
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Estimate the total number of tenth-grade students expected to visit the university.

Enter your answer and your work in the space provided.

\[0.10 \times 9022 = 902\]
\[0.10 \times 75481 = 7,548\]
\[0.10 \times 83800 = 8,380\]
\[902 + 7,548 + 8,380 = 16,830\]
From all of my work, 16,830 tenth graders will be expected to visit the university.
Anchor Paper 6
This response receives no credit. It includes none of the three required elements.

Part A: Score Point 0
The response does not provide a correct equation; therefore, no credit is earned for element one.

Part B: Score Point 0
The response does not provide a correct assumption; therefore, no credit is earned for element three. The response makes an incorrect estimate for the number of tenth graders expected to attend, earning no credit for element two.

Note: No credit can be earned for element three for finding ten percent of the total student population and using that as an answer for ten percent of the tenth grade students.
A university organizes an event in which all tenth-grade students from three school districts are invited to visit the university campus. Each school district serves students from kindergarten through twelfth grade. The organizers expect 10% of the invited students to attend.

Part A
Write an equation that can be used to predict the total number of tenth-grade students expected to attend. Describe the assumptions you used to determine your equation.

Enter your equation and your work in the space provided.

\[
\frac{10\%}{\text{number of kids in district}}
\]

Part B
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Estimate the total number of tenth-grade students expected to visit the university.

Enter your answer and your work in the space provided.

10% of the kids will show from each school district
Anchor Paper 7
This response receives no credit. It includes none of the three required elements.

Part A: Score Point 0
The response does not provide a correct equation; therefore, no credit is earned for element one.

Part B: Score Point 0
The response does not provide a correct assumption; therefore, no credit is earned for element three. The response does not provide a correct estimate for the number of tenth graders expected to attend, earning no credit for element two.
Practice Set
P1–P8
No Annotations Included
A university organizes an event in which all tenth-grade students from three school districts are invited to visit the university campus. Each school district serves students from kindergarten through twelfth grade. The organizers expect 10% of the invited students to attend.

Part A
Write an equation that can be used to predict the total number of tenth-grade students expected to attend. Describe the assumptions you used to determine your equation.

Enter your equation and your work in the space provided.

\[ n = 3d + .10 \]

Part B
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Estimate the total number of tenth-grade students expected to visit the university.

Enter your answer and your work in the space provided.

1295 students should attend because if you divide by 13 for all tenth graders and then divide that by 10 for 10% of all tenth graders you get 1295.
A university organizes an event in which all tenth-grade students from three school districts are invited to visit the university campus. Each school district serves students from kindergarten through twelfth grade. The organizers expect 10% of the invited students to attend.

### Part A
Write an equation that can be used to predict the total number of tenth-grade students expected to attend. Describe the assumptions you used to determine your equation.

Enter your equation and your work in the space provided.

\[ \frac{x}{10} \times 3 \]

### Part B
This table shows information about the districts from which students will be invited.

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Estimate the total number of tenth-grade students expected to visit the university.

Enter your answer and your work in the space provided.

16830
A university organizes an event in which all tenth-grade students from three school districts are invited to visit the university campus. Each school district serves students from kindergarten through twelfth grade. The organizers expect 10% of the invited students to attend.

Part A
Write an equation that can be used to predict the total number of tenth-grade students expected to attend. Describe the assumptions you used to determine your equation.

Enter your equation and your work in the space provided.

\[ y = 0.10x \]

0.10 is the 10% then multiplied by the number of 10th grade students at the school, \( x \), and the \( y \) would be how many students will attend.

Part B
This table shows information about the districts from which students will be invited.

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Estimate the total number of tenth-grade students expected to visit the university.

Enter your answer and your work in the space provided.

16,830 students will be expected to visit the university. Allegany:
\[ 0.10 \times 9022 = 902 \]
Anne: \[ 0.10 \times 75481 = 7548 \]
Baltimore: \[ 0.10 \times 83800 = 8380 \]
\[ 902 + 7548 + 8380 = 16,830 \] students
A university organizes an event in which all tenth-grade students from three school districts are invited to visit the university campus. Each school district serves students from kindergarten through twelfth grade. The organizers expect 10% of the invited students to attend.

**Part A**

Write an equation that can be used to predict the total number of tenth-grade students expected to attend. Describe the assumptions you used to determine your equation.

Enter your equation and your work in the space provided.

\[
s = \text{students} \\
a = \text{allegheny county} \\
b = \text{anne arundel county} \\
c = \text{baltimore city} \\
s = \left[\frac{(a + b + c)}{13}\right] \times 0.1
\]

First we would add up the number of students from each district. Then we would divide by 13 grades to find the average amount of students per grade. We can assume that this is also the number of tenth graders. We would then multiply by 0.1 to find 10% of the total number of eighth graders. The solution to this equation will be an estimate of the amount of tenth grade students attending.

**Part B**

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Estimate the total number of tenth-grade students expected to visit the university.

Enter your answer and your work in the space provided.

\[
s = \text{students} \\
s = 9,022 + 75,481 + 83,800 / 13 \\
s = 12946 \\
s = 12946 \times 0.1 \\
s = 1294.6
\]

The university expects about 1,295 students to attend.
A university organizes an event in which all tenth-grade students from three school districts are invited to visit the university campus. Each school district serves students from kindergarten through twelfth grade. The organizers expect 10% of the invited students to attend.

**Part A**

Write an equation that can be used to predict the total number of tenth-grade students expected to attend. Describe the assumptions you used to determine your equation.

Enter your equation and your work in the space provided.

\[ 9,022 + 75,481 + 83,800 \]

**Part B**

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Estimate the total number of tenth-grade students expected to visit the university.

Enter your answer and your work in the space provided.

1,68303
A university organizes an event in which all tenth-grade students from three school districts are invited to visit the university campus. Each school district serves students from kindergarten through twelfth grade. The organizers expect 10% of the invited students to attend.

**Part A**

Write an equation that can be used to predict the total number of tenth-grade students expected to attend. Describe the assumptions you used to determine your equation.

Enter your equation and your work in the space provided.

The equations for the total amount of tenth graders to show up is $y = 0.10x$ because if there is only an expected amount of ten percent, then you need to take $x$, being the amount of invitations, multiplied by the expected amount to equal $y$, the amount of tenth grade students at the dance.

**Part B**

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Estimate the total number of tenth-grade students expected to visit the university.

Enter your answer and your work in the space provided.

I took the number of students in each school district and divided by 12 because there are 12 grade level being served, so that is how I got the estimate of tenth graders. Then I added them all together to get 13,824. I then proceeded to multiply by 0.10 to get 1382.4 which is the expected amount to visit the university.
A university organizes an event in which all tenth-grade students from three school districts are invited to visit the university campus. Each school district serves students from kindergarten through twelfth grade. The organizers expect 10% of the invited students to attend.

**Part A**

Write an equation that can be used to predict the total number of tenth-grade students expected to attend. Describe the assumptions you used to determine your equation.

Enter your equation and your work in the space provided.

\[ n = \text{number of students invited} \]
\[ s = \text{number of students that attend the event} \]

\[ s = n \div 10 \]

**Part B**

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Estimate the total number of tenth-grade students expected to visit the university.

Enter your answer and your work in the space provided.

\[ 9,022 + 75,481 + 83,800 = 168,303 \]

\[ 168,303 \div 10 \approx 16830 \]

About 16830 students are expected to visit the university.
A university organizes an event in which all tenth-grade students from three school districts are invited to visit the university campus. Each school district serves students from kindergarten through twelfth grade. The organizers expect 10% of the invited students to attend.

**Part A**

Write an equation that can be used to predict the total number of tenth-grade students expected to attend. Describe the assumptions you used to determine your equation.

Enter your equation and your work in the space provided.

\[
y = 0.10x \\
x = \text{invited tenth graders} \\
y = \text{attending tenth graders}
\]

**Part B**

This table shows information about the districts from which students will be invited.

<table>
<thead>
<tr>
<th>District Name</th>
<th>Number of Students in the District</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allegany County</td>
<td>9,022</td>
</tr>
<tr>
<td>Anne Arundel County</td>
<td>75,481</td>
</tr>
<tr>
<td>Baltimore City</td>
<td>83,800</td>
</tr>
</tbody>
</table>

Estimate the total number of tenth-grade students expected to visit the university.

Enter your answer and your work in the space provided.

\[
\begin{align*}
\frac{9,022}{12} &= 751 \\
\frac{75,481}{12} &= 6,290 \\
\frac{83,800}{12} &= 6,983 \\
751 + 6,983 + 6,290 &= 14,024 \\
\frac{14,024}{10} &\approx 1,402 \text{ estimated attending 10th graders}
\end{align*}
\]
## Practice Set

<table>
<thead>
<tr>
<th>Paper</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>0,1</td>
</tr>
<tr>
<td>P2</td>
<td>0,0</td>
</tr>
<tr>
<td>P3</td>
<td>1,0</td>
</tr>
<tr>
<td>P4</td>
<td>1,2</td>
</tr>
<tr>
<td>P5</td>
<td>0,0</td>
</tr>
<tr>
<td>P6</td>
<td>1,1</td>
</tr>
<tr>
<td>P7</td>
<td>1,0</td>
</tr>
<tr>
<td>P8</td>
<td>1,2</td>
</tr>
</tbody>
</table>