



Math
Released Item 2016

Grade 6

Student Council's Activity Night
VH061163

The student council is planning an activity night to raise money. The student council will charge \$5 per student to attend the activity night.

Part A

Write an expression that can be used to calculate the amount of money collected for n number of students.

Enter your expression in the space provided. Enter **only** your expression.

Part B

The cost to rent the school is \$200. The student council has a goal to raise \$350 after paying the rental fee.

How many students will need to attend the activity night for the student council to pay for the rental fee and reach their goal? Show or explain all the steps you used to solve the problem.

Enter your answer and your work or explanation in the space provided.

Rubric Part A (Machine Scored)

Score	Description
1	<p>Student response includes the following element.</p> <ul style="list-style-type: none"> • Modeling component = 1 point <ul style="list-style-type: none"> ○ The student provides an expression of $5n$ or an expression equivalent to $5n$.
0	Student response is incorrect or irrelevant.

Rubric Part B

Score	Description
2	<p>Student response includes the following 2 elements.</p> <ul style="list-style-type: none"> • Computation component = 1 point <ul style="list-style-type: none"> ○ The student provides a response of 110 students. • Modeling component = 1 point <ul style="list-style-type: none"> ○ The student shows a correct strategy to determine the number of students needed to attend the activity night so that the student council will reach its goal <p>Sample Student Response: "200 + 350 = 550 and $550 \div 5 = 110$, so 110 students need to attend the activity night." OR "The student council needs to collect $200 + 350 = 550$ to reach its goal. Using my expression, I wrote the equation $5n = 550$, then divided both sides by 5 to get the number of students that need to attend the activity night, 110 students."</p> <p>Notes:</p> <ul style="list-style-type: none"> • The student may receive a combined total of 2 points if the modeling process is correct but the student makes one or more computational errors resulting in incorrect answers. • The student may receive a total of 2 points if he or she computes the correct answers but shows no work or insufficient work to indicate a correct modeling process. • If a student writes an incorrect equation and answers the remaining prompts based on the equation, he or she can receive a combined total of 2 points if the remaining modeling is correct.
1	Student response includes 1 of the above elements.
0	Student response is incorrect or irrelevant.

Anchor Set A1 – A6

With Annotations

The student council is planning an activity night to raise money. The student council will charge \$5 per student to attend the activity night.

Part A

Write an expression that can be used to calculate the amount of money collected for n number of students.

Enter your expression in the space provided. Enter **only** your expression.

$$n \times \$5 = \square$$

Part B

The cost to rent the school is \$200. The student council has a goal to raise \$350 after paying the rental fee.

How many students will need to attend the activity night for the student council to pay for the rental fee and reach their goal? Show or explain all the steps you used to solve the problem.

Enter your answer and your work or explanation in the space provided.

$$\begin{aligned} 350 \div 5 &= 70 \\ 200 \div 5 &= 40 \\ 70 + 40 &= 110 \end{aligned}$$

Annotation

Anchor Paper 1 Part B

Score Point 2

This response receives full credit. It includes each of the two required elements:

- A response of 110 students is provided (110).
- A correct strategy to determine the number of students needed to attend the activity night so that the student council will reach its goal is shown ($350 \div 5$; $200 \div 5$; $70 + 40$).

The student council is planning an activity night to raise money. The student council will charge \$5 per student to attend the activity night.

Part A

Write an expression that can be used to calculate the amount of money collected for n number of students.

Enter your expression in the space provided. Enter **only** your expression.

$$n \times 5$$

Part B

The cost to rent the school is \$200. The student council has a goal to raise \$350 after paying the rental fee.

How many students will need to attend the activity night for the student council to pay for the rental fee and reach their goal? Show or explain all the steps you used to solve the problem.

Enter your answer and your work or explanation in the space provided.

40 students would have to come to pay off the \$200 rental fee. it would take 70 people to pay off their goal. altogether that is 110 people.

to get my answer I divided 200 by 5 and 350 by 5.

Annotation

Anchor Paper 2 Part B

Score Point 2

This response receives full credit. It includes each of the two required elements:

- A response of 110 students is provided (110 people).
- A correct strategy to determine the number of students needed to attend the activity night so that the student council will reach its goal is shown (I divided 200 by 5 and 350 by 5).

The student council is planning an activity night to raise money. The student council will charge \$5 per student to attend the activity night.

Part A

Write an expression that can be used to calculate the amount of money collected for n number of students.

Enter your expression in the space provided. Enter **only** your expression.

$n = \$5son = the = nnumberofstudents$

Part B

The cost to rent the school is \$200. The student council has a goal to raise \$350 after paying the rental fee.

How many students will need to attend the activity night for the student council to pay for the rental fee and reach their goal? Show or explain all the steps you used to solve the problem.

Enter your answer and your work or explanation in the space provided.

will $350 \div 5 = 70$ so 70 kids but if they are saying how many people for the fee then the goal there would have to be it would be 110

Annotation

Anchor Paper 3 Part B

Score Point 1

This response receives partial credit. It includes one of the two required elements:

- A response of 110 students is provided (110).

The strategy shown to determine the number of students needed to attend the activity night so that the student council will reach its goal is insufficient ($350 \div 5$). Work or explanation related to the 40 students needed to pay the rental fee of \$200 would also need to be provided to earn credit for this element.

The student council is planning an activity night to raise money. The student council will charge \$5 per student to attend the activity night.

Part A

Write an expression that can be used to calculate the amount of money collected for n number of students.

Enter your expression in the space provided. Enter **only** your expression.

$$n \times 5$$

Part B

The cost to rent the school is \$200. The student council has a goal to raise \$350 after paying the rental fee.

How many students will need to attend the activity night for the student council to pay for the rental fee and reach their goal? Show or explain all the steps you used to solve the problem.

Enter your answer and your work or explanation in the space provided.

$$200 + 350 = 550 \div 5 = 110 = n$$

Annotation

Anchor Paper 4 Part B

Score Point 1

This response receives partial credit. It includes each of the two required elements, but loses a precision point.

- A response of 110 students is provided (110).
- A correct strategy to determine the number of students needed to attend the activity night so that the student council will reach its goal is shown ($550 \div 5$), but the work shown includes a run-on equation ($200 + 350 = 550 \div 5$); e.g., $200 + 350$ is not equal to $550 \div 5$. A scoring decision exists that if a run-on equation occurs in a given response and the response would have received the top score, score point 2 for this item, without the run-on equation, a score point will be deducted. Therefore, although each of the two required elements are included, this response earns a Score Point 1 because it loses one precision point due to the inclusion of a run-on equation.

The student council is planning an activity night to raise money. The student council will charge \$5 per student to attend the activity night.

Part A

Write an expression that can be used to calculate the amount of money collected for n number of students.

Enter your expression in the space provided. Enter **only** your expression.

$$5 \times n = n$$

Part B

The cost to rent the school is \$200. The student council has a goal to raise \$350 after paying the rental fee.

How many students will need to attend the activity night for the student council to pay for the rental fee and reach their goal? Show or explain all the steps you used to solve the problem.

Enter your answer and your work or explanation in the space provided.

$$350 - 200 = 150 \text{ rental fee}$$

Annotation

Anchor Paper 5 Part B

Score Point 0

This response receives no credit. It includes none of the two required elements:

A response of 110 students is not provided.

A correct strategy to determine the number of students needed to attend the activity night so that the student council will reach its goal is not shown. The work shown is illogical for solving the problem ($350 - 200 = 150$ rental fee).

The student council is planning an activity night to raise money. The student council will charge \$5 per student to attend the activity night.

Part A

Write an expression that can be used to calculate the amount of money collected for n number of students.

Enter your expression in the space provided. Enter **only** your expression.

$$5 \times n$$

Part B

The cost to rent the school is \$200. The student council has a goal to raise \$350 after paying the rental fee.

How many students will need to attend the activity night for the student council to pay for the rental fee and reach their goal? Show or explain all the steps you used to solve the problem.

Enter your answer and your work or explanation in the space provided.

$$200 \times 350 = 70,000$$

Annotation

Anchor Paper 6 Part B

Score Point 0

This response receives no credit. It includes none of the two required elements:

A response of 110 students is not provided (70,000).

A correct strategy to determine the number of students needed to attend the activity night so that the student council will reach its goal is not shown (200×350).

Practice Set
P101 - P105

No Annotations Included

The student council is planning an activity night to raise money. The student council will charge \$5 per student to attend the activity night.

Part A

Write an expression that can be used to calculate the amount of money collected for n number of students.

Enter your expression in the space provided. Enter **only** your expression.

$$5 + n = \square$$

Part B

The cost to rent the school is \$200. The student council has a goal to raise \$350 after paying the rental fee.

How many students will need to attend the activity night for the student council to pay for the rental fee and reach their goal? Show or explain all the steps you used to solve the problem.

Enter your answer and your work or explanation in the space provided.

71 students need to attend

The student council is planning an activity night to raise money. The student council will charge \$5 per student to attend the activity night.

Part A

Write an expression that can be used to calculate the amount of money collected for n number of students.

Enter your expression in the space provided. Enter **only** your expression.

Part B

The cost to rent the school is \$200. The student council has a goal to raise \$350 after paying the rental fee.

How many students will need to attend the activity night for the student council to pay for the rental fee and reach their goal? Show or explain all the steps you used to solve the problem.

Enter your answer and your work or explanation in the space provided.

$$\$200 + \$350 = \$550$$

$$\$5 = 1 \text{ student}$$

$$\$550 \div \$5 = 110$$

110 students will need to attend so the student council can reach their goal.

The student council is planning an activity night to raise money. The student council will charge \$5 per student to attend the activity night.

Part A

Write an expression that can be used to calculate the amount of money collected for n number of students.

Enter your expression in the space provided. Enter **only** your expression.

$$n \times 5 = ?$$

Part B

The cost to rent the school is \$200. The student council has a goal to raise \$350 after paying the rental fee.

How many students will need to attend the activity night for the student council to pay for the rental fee and reach their goal? Show or explain all the steps you used to solve the problem.

Enter your answer and your work or explanation in the space provided.

they would have to have 110 students come if they wanted to reach there goal of \$550

The student council is planning an activity night to raise money. The student council will charge \$5 per student to attend the activity night.

Part A

Write an expression that can be used to calculate the amount of money collected for n number of students.

Enter your expression in the space provided. Enter **only** your expression.

$$5 \times n$$

Part B

The cost to rent the school is \$200. The student council has a goal to raise \$350 after paying the rental fee.

How many students will need to attend the activity night for the student council to pay for the rental fee and reach their goal? Show or explain all the steps you used to solve the problem.

Enter your answer and your work or explanation in the space provided.

110 students must come because due to the rental fee, you must add \$200 and \$350 which equals \$550 the school must pay. \$550 divided by \$5 per person equals 110 students that must come in order to reach their goal and pay for the rental fee.

The student council is planning an activity night to raise money. The student council will charge \$5 per student to attend the activity night.

Part A

Write an expression that can be used to calculate the amount of money collected for n number of students.

Enter your expression in the space provided. Enter **only** your expression.

$$5 \times n$$

Part B

The cost to rent the school is \$200. The student council has a goal to raise \$350 after paying the rental fee.

How many students will need to attend the activity night for the student council to pay for the rental fee and reach their goal? Show or explain all the steps you used to solve the problem.

Enter your answer and your work or explanation in the space provided.

$$550 - 200 = 350$$

110 students will need to attend the activity night

Practice Set

Paper	Score Part B
P101	0
P102	2
P103	1
P104	2
P105	1