Math
Released Item 2019

Grade 4

Community Garden
0216-M00278
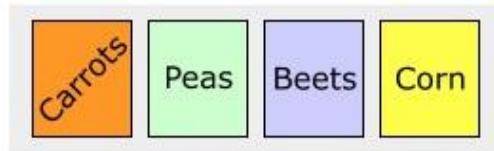
Anchor Set
A1 – A6

With Annotations

Prompt

Part A

A community garden is divided into 10 equal sections. Carrots are planted in $\frac{5}{10}$ of the garden and peas are planted in $\frac{1}{10}$ of the garden. The rest of the garden is planted with beets and corn. More of the garden is planted with beets than corn. Find the number of sections of carrots, peas, beets, and corn that were planted.

Drag and drop the correct number of vegetable sections to build the garden.

Carrots	Peas	Beets	Corn

Community Garden

Part B

What fraction of the garden is planted only with beets? Show your work or explain your answer using equations.

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

▾ Math symbols

+	−	×	÷
▤	▥	(·)	[·]
=	<	>	≠
$	°	?	

M04_0216-M00278 Rubric Part A (Machine Scored)	
Score	**Description**
1	**This part of the item is machine scored.** • **Computation component** = 1 point ○ Student response shows 5 sections of carrots, 1 section of peas, 1 section of corn, and 3 sections of beets.
0	The response is incorrect or irrelevant.

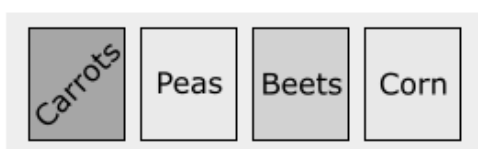| M04_0216-M00278 Rubric Part B	
Score	**Description**

2	Student response includes each of the following 2 elements.
	
	• **Computation component** = 1 point
	
	    ○ Correct fraction for beets, $\frac{3}{10}$
	
	• **Modeling component** = 1 point
	
	    ○ Valid work or explanation for how the fraction of beets was determined
	
	Student sample response:
	
	$\frac{3}{10}$ of the garden is planted in beets because $\frac{10}{10} - \frac{5}{10} - \frac{1}{10} = \frac{4}{10}$.
	
	$\frac{3}{10}$ of the garden is planted in beets because there are more beets than corn planted.
	
	Or other valid response.

1	Student response includes 1 of the 2 elements.
0	The response is incorrect or irrelevant.

Part A

A community garden is divided into 10 equal sections. Carrots are planted in $\frac{5}{10}$ of the garden and peas are planted in $\frac{1}{10}$ of the garden. The rest of the garden is planted with beets and corn. More of the garden is planted with beets than corn. Find the number of sections of carrots, peas, beets, and corn that were planted.

Drag and drop the correct number of vegetable sections to build the garden.

| Carrots | Peas | Beets | Corn |

Community Garden

Carrots	Carrots	Carrots	Carrots	Carrots
Peas	Beets	Beets	Beets	Corn

Part B

What fraction of the garden is planted only with beets? Show your work or explain your answer using equations.

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

$$\frac{1}{10} + \frac{5}{10} = \frac{6}{10}$$

To figure out how much is left subtract $\frac{10}{10}$ by $\frac{6}{10.}$

$\frac{10}{10} - \frac{6}{10} = \frac{4}{10}$ is left. $\frac{3}{10} = beets$

$\frac{1}{10} = corn$

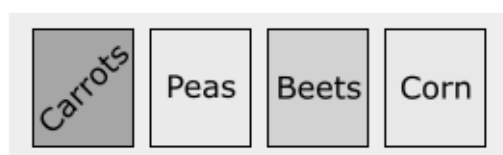| Annotation |
| --- |

Anchor Paper 1
Part B: Score Point 2
This response receives full credit. The response includes each of the two required elements:

- The response provides the correct fraction for beets (3/10).

- The response provides correct work or explanation of how the fraction of beets was determined (1/10 + 5/10 = 6/10, 10/10 − 6/10 = 4/10 is left. 3/10 = beets, 1/10 = corn).

Part A

A community garden is divided into 10 equal sections. Carrots are planted in $\frac{5}{10}$ of the garden and peas are planted in $\frac{1}{10}$ of the garden. The rest of the garden is planted with beets and corn. More of the garden is planted with beets than corn. Find the number of sections of carrots, peas, beets, and corn that were planted.

Drag and drop the correct number of vegetable sections to build the garden.

| Carrots | Peas | Beets | Corn |

Community Garden

Carrots	Carrots	Carrots	Carrots	Carrots
Peas	Corn	Beets	Beets	Beets

Part B

What fraction of the garden is planted only with beets? Show your work or explain your answer using equations.

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

$\frac{3}{10}$ of the garden is beets. $\frac{5}{10} + \frac{1}{10} = \frac{6}{10}$ I still have $\frac{4}{10}$ of the garden to plant beets and corn.
Since I am plating more beets than corn I am going to plant $\frac{1}{10}$ with corn and $\frac{3}{10}$ with beets. check: $\frac{5}{10} + \frac{1}{10} + \frac{1}{10} + \frac{3}{10} = \frac{10}{10}$ or 1.

Anchor Paper 2
Part B: Score Point 2
This response receives full credit. The response includes each of the two
required elements:

- The response provides the correct fraction for beets (3/10).

- The response provides correct work or explanation of how the fraction
  of beets was determined (5/10 + 1/10 = 6/10 I still have 4/10 of the
  garden to plant beets and corn. Since I am plating more beets than
  corn I am going to plant 1/10 with corn and 3/10 with beets . . . 5/10
  + 1/0 + 1/10 + 3/10 = 10/10).

Part A

A community garden is divided into 10 equal sections. Carrots are planted in $\frac{5}{10}$ of the garden and peas are planted in $\frac{1}{10}$ of the garden. The rest of the garden is planted with beets and corn. More of the garden is planted with beets than corn. Find the number of sections of carrots, peas, beets, and corn that were planted.

Drag and drop the correct number of vegetable sections to build the garden.

Carrots	Peas	Beets	Corn

Community Garden

Carrots	Carrots	Carrots	Carrots	Carrots
Peas	Beets	Beets	Beets	Corn

Part B

What fraction of the garden is planted only with beets? Show your work or explain your answer using equations.

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

I knew that $\frac{3}{10}$ of the garden was beets because the rest of the garden was $\frac{7}{10}$ covered with other plants so I did $\frac{10}{10} - \frac{7}{10} \square = \frac{3}{10}$. That is how I found out that $\frac{3}{10}$ of the garden were beets.

Annotation

Anchor Paper 3
Part B: Score Point 1
This response receives partial credit. The response includes one of the two required elements:

- The response provides the correct fraction for beets (3/10).
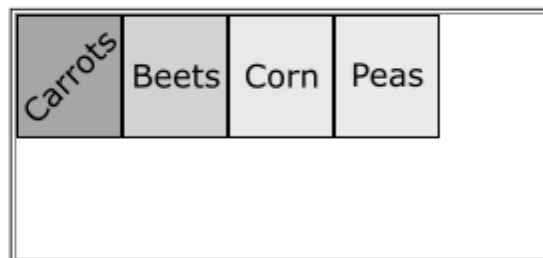
The response provides insufficient work or explanation of how the fraction of beets was determined (the rest of the garden was 7/10 covered with other plants so I did 10/10 – 7/10 = 3/10). Note that the response does not reference Part A as their explanation for 7/10 being covered. The response also does not show the work for 7/10. Therefore, credit cannot be given for this element.

Part A

A community garden is divided into 10 equal sections. Carrots are planted in $\frac{5}{10}$ of the garden and peas are planted in $\frac{1}{10}$ of the garden. The rest of the garden is planted with beets and corn. More of the garden is planted with beets than corn. Find the number of sections of carrots, peas, beets, and corn that were planted.

Drag and drop the correct number of vegetable sections to build the garden.

| Carrots | Peas | Beets | Corn |

Community Garden

| Carrots | Beets | Corn | Peas |

Part B

What fraction of the garden is planted only with beets? Show your work or explain your answer using equations.

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

$\frac{3}{10}$ thats how many beets were planted

Annotation
Anchor Paper 4 **Part B: Score Point 1** This response receives partial credit. The response includes one of the two required elements: • The response provides the correct fraction for beets (3/10). The response does not provide work or explanation of how the fraction of beets was determined.

Part A

A community garden is divided into 10 equal sections. Carrots are planted in $\frac{5}{10}$ of the garden and peas are planted in $\frac{1}{10}$ of the garden. The rest of the garden is planted with beets and corn. More of the garden is planted with beets than corn. Find the number of sections of carrots, peas, beets, and corn that were planted.

Drag and drop the correct number of vegetable sections to build the garden.

Carrots	Peas	Beets	Corn

Community Garden

Carrots	Carrots	Carrots	Carrots	Carrots
Peas	Beets	Beets	Corn	Corn

Part B

What fraction of the garden is planted only with beets? Show your work or explain your answer using equations.

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

$\frac{2}{10}$ of the garden is planted with beets.

$\frac{2}{10} + \frac{8}{10} = \frac{10}{10}$ or 1

Annotation

Anchor Paper 5
Part B: Score Point 0
This response receives no credit. The response includes none of the two required elements:

The response provides an incorrect fraction for beets (2/10).

The response provides incorrect work or explanation of how the fraction of beets was determined (2/10 + 8/10 = 10/10 or 1). This work not only does not show how 8/10 is determined, 2/10 of the garden planted with beets means corn and beets are equal, which does not show understanding that the garden has more beets than corn.

Part A

A community garden is divided into 10 equal sections. Carrots are planted in $\frac{5}{10}$ of the garden and peas are planted in $\frac{1}{10}$ of the garden. The rest of the garden is planted with beets and corn. More of the garden is planted with beets than corn. Find the number of sections of carrots, peas, beets, and corn that were planted.

Drag and drop the correct number of vegetable sections to build the garden.

Carrots	Peas	Beets	Corn

Community Garden

Carrots	Carrots	Peas	Peas	Beets
Beets	Corn	Corn		

Part B

What fraction of the garden is planted only with beets? Show your work or explain your answer using equations.

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

$$\frac{6}{10} + \frac{2}{10} + \frac{2}{10} = \frac{10}{10}$$

Annotation

Anchor Paper 6
Part B: Score Point 0
This response receives no credit. The response includes none of the two
required elements:

The response provides an incorrect fraction for beets (10/10).

The response does not provide correct work or explanation of how the
fraction of beets was determined (6/10 + 2/10 + 2/10 = 10/10. This work
indicates that the garden has an equal amount of beets and corn, which does
not show understanding that the garden has more beets than corn.

Practice Set
P1 - P5

No Annotations Included

Part A

A community garden is divided into 10 equal sections. Carrots are planted in $\frac{5}{10}$ of the garden and peas are planted in $\frac{1}{10}$ of the garden. The rest of the garden is planted with beets and corn. More of the garden is planted with beets than corn. Find the number of sections of carrots, peas, beets, and corn that were planted.

Drag and drop the correct number of vegetable sections to build the garden.

| Carrots | Peas | Beets | Corn |

Community Garden

Carrots	Carrots	Carrots	Carrots	Carrots
Peas	Beets	Beets	Beets	Corn

Part B

What fraction of the garden is planted only with beets? Show your work or explain your answer using equations.

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

$\frac{3}{10}$ is beets because theres more beets than corn but if there were to corn and two beats it would be equal but $beats > corn$

Part A

A community garden is divided into 10 equal sections. Carrots are planted in $\frac{5}{10}$ of the garden and peas are planted in $\frac{1}{10}$ of the garden. The rest of the garden is planted with beets and corn. More of the garden is planted with beets than corn. Find the number of sections of carrots, peas, beets, and corn that were planted.

Drag and drop the correct number of vegetable sections to build the garden.

Carrots	Peas	Beets	Corn

Community Garden

Carrots	Peas	Beets	Corn	Carrots
Carrots	Peas	Peas	Beets	Corn

Part B

What fraction of the garden is planted only with beets? Show your work or explain your answer using equations.
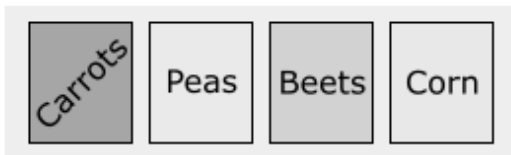
Enter your answer and your work or explanation in the space provided.

Only $\frac{2}{5}$ of the garden is planted with beets.

Part A

A community garden is divided into 10 equal sections. Carrots are planted in $\frac{5}{10}$ of the garden and peas are planted in $\frac{1}{10}$ of the garden. The rest of the garden is planted with beets and corn. More of the garden is planted with beets than corn. Find the number of sections of carrots, peas, beets, and corn that were planted.

Drag and drop the correct number of vegetable sections to build the garden.

Carrots	Peas	Beets	Corn

Community Garden

Carrots	Carrots	Carrots	Carrots	Carrots
Peas	Beets	Beets	Beets	Corn

Part B

What fraction of the garden is planted only with beets? Show your work or explain your answer using equations.

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

$\frac{3}{10}$ *because* $\frac{10}{10} - \frac{7}{10} = \frac{3}{10}.$

Part A

A community garden is divided into 10 equal sections. Carrots are planted in $\frac{5}{10}$ of the garden and peas are planted in $\frac{1}{10}$ of the garden. The rest of the garden is planted with beets and corn. More of the garden is planted with beets than corn. Find the number of sections of carrots, peas, beets, and corn that were planted.

Drag and drop the correct number of vegetable sections to build the garden.

Carrots	Peas	Beets	Corn

Community Garden

Carrots	Carrots	Carrots	Carrots	Carrots
Peas	Beets	Beets	Corn	Corn

Part B

What fraction of the garden is planted only with beets? Show your work or explain your answer using equations.

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

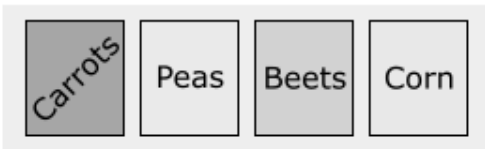$\frac{1}{10} + \frac{5}{10} = \frac{6}{10}$ but you would have to subtract $\frac{6}{10} - \frac{10}{10} = \frac{4}{10}$ then you would take $\frac{2}{10} - \frac{4}{10}$ and it is $\frac{2}{10}$.

Part A

A community garden is divided into 10 equal sections. Carrots are planted in $\frac{5}{10}$ of the garden and peas are planted in $\frac{1}{10}$ of the garden. The rest of the garden is planted with beets and corn. More of the garden is planted with beets than corn. Find the number of sections of carrots, peas, beets, and corn that were planted.

Drag and drop the correct number of vegetable sections to build the garden.

| Carrots | Peas | Beets | Corn |

Community Garden

Carrots	Carrots	Carrots	Carrots	Carrots
Peas	Beets	Beets	Beets	Corn

Part B

What fraction of the garden is planted only with beets? Show your work or explain your answer using equations.

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

well the graden is planted with $\frac{3}{10}$, that beets i know that that is the anwer because $\frac{5}{10}$ are filled with carrots ,$\frac{1}{10}$ is filled with peas and the rest is filled with corn.

Practice Set

Paper	Score
P1	1
P2	0
P3	1
P4	0
P5	1