

Stamp Collection Problem

Marco has a stamp collection. He added 15 stamps to his collection and now has 122 stamps. How many stamps did he have in the beginning?

Diagram and Equation Practice (Addition and Subtraction)

(pp. 1 of 2)

Use the table below to help you solve the problem.

Problem:

In a survey, 245 students out of 532 chose pizza as their favorite meal. How many students did not choose pizza?

Understand the problem/plan:

What are you trying to find?

What do you know?

Diagram:

Create a diagram to model this problem. Use the letter p to represent what you are trying to find.

Equation:

Write an equation based on the diagram you have created.

Solve:

Diagram and Equation Practice (Addition and Subtraction)

(pp. 1 of 2) **KEY**

Use the table below to help you solve the problem.

Problem:

In a survey, 245 students out of 532 chose pizza as their favorite meal. How many students did not choose pizza?

Understand the problem/plan:

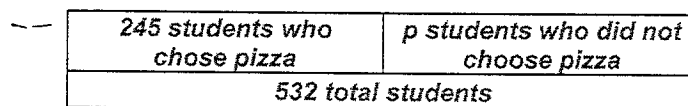
What are you trying to find? *the number of students who did not choose pizza*

What do you know? *the total number of students in the survey and the number of students who did choose pizza*

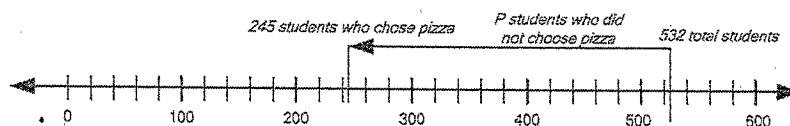
Diagram:

Create a diagram to model this problem. Use the letter p to represent what you are trying to find.

Diagrams may vary, but could include:



OR



Equation:

Write an equation based on the diagram you have created.

$$532 \text{ total students} - 245 \text{ students who chose pizza} = p \text{ students who did not choose pizza}$$

Solve:

$$532 \text{ total students} - 245 \text{ students who chose pizza} = 287 \text{ students who did not choose pizza}$$

Diagram and Equation Practice (Addition and Subtraction) (pp. 2 of 2)

Use the table below to help you solve the problem.

Problem:

Kassie scored 515 points on a video game. Her sister scored 213 more points than she did on the same game. How many points did Kassie's sister score on the video game?

Understand the problem/plan:

What are you trying to find?

What do you know?

Diagram:

Create a diagram to model this problem. Use the letter c to represent what you are trying to find.

Equation:

Write an equation based on the diagram you have created.

Solve:

Diagram and Equation Practice (Addition and Subtraction)

(pp. 2 of 2) **KEY**

Use the table below to help you solve the problem.

Problem:

Kassie scored 515 points on a video game. Her sister scored 213 more points than she did on the same game. How many points did Kassie's sister score on the video game?

Understand the problem/plan:

What are you trying to find? *the number of points Kassie's sister scored*

What do you know? *the total number of points Kassie scored and how many more points her sister scored*

Diagram:

Create a diagram to model this problem. Use the letter *c* to represent what you are trying to find.

Diagrams may vary, but could include:

515 points for Kassie	213 more points for Kassie's sister
c total points for Kassie's sister	

OR

Number line representing the same

Equation:

Write an equation based on the diagram you have created.

$$515 \text{ points for Kassie} + 213 \text{ more points scored by her sister} = c \text{ total points for her sister}$$

Solve:

$$515 \text{ points for Kassie} + 213 \text{ more points scored by her sister} = 728 \text{ total points for her sister}$$