1 Choose the letter that has **more** than one line of symmetry.

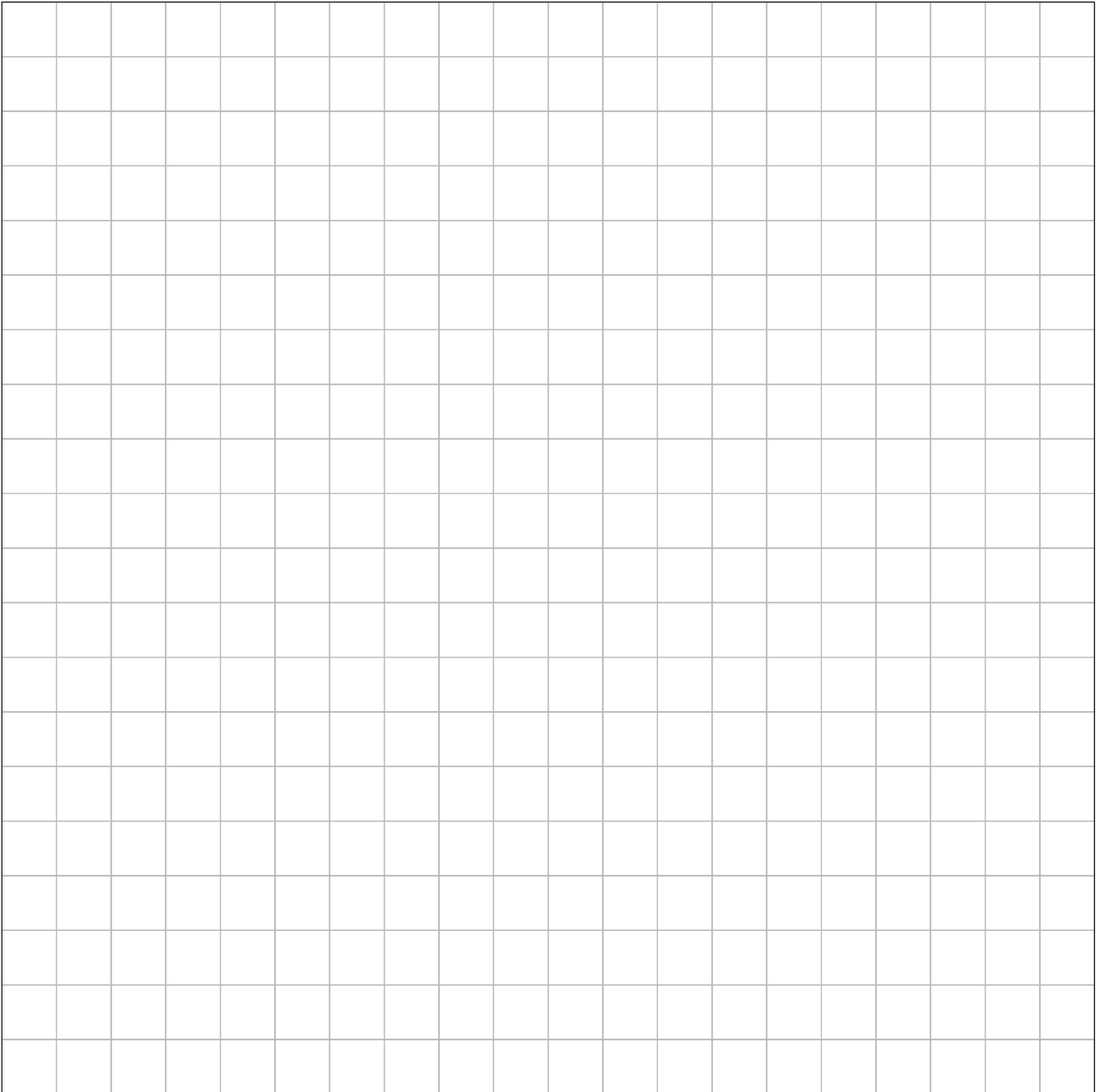A   P   E   H

○   ○   ○   ●

2 The number 36 is a square number. On the grid below, draw a figure that shows 36 as a square number.
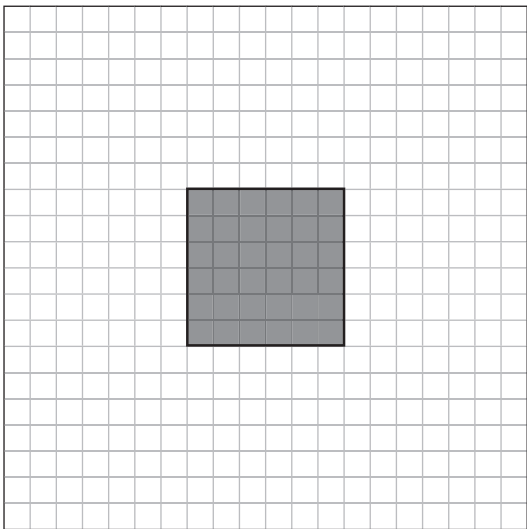
grid—pattern of lines that form squares

Rubric

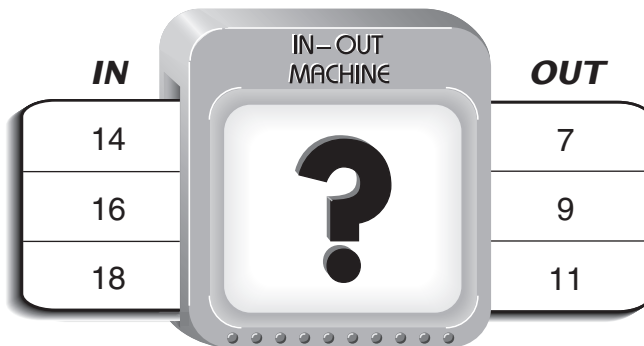**Exemplary Response:**

2 Points

-

Score Points:

Apply 2-point holistic rubric.

Standard: 1.1.C Patterns, Functions, Algebra

3 Study the *In-Out* machine shown below.

IN	IN–OUT MACHINE	OUT
14	?	7
16		9
18		11

What is the rule that changes *In* numbers to *Out* numbers?

○ Divide the *In* number by 2.

○ Add 7 to the *In* number.

● Subtract 7 from the *In* number.

○ Subtract 6 from the *In* number.

4 José counted the number of pretzels in 6 bags of Crunchy Pretzels. The table below shows his results.

CRUNCHY PRETZELS

Bag	Number of Pretzels
1	97
2	99
3	102
4	96
5	100
6	97

What is the range of pretzels found in the bags?

○ 3

○ 4

○ 5

● 6

pretzel—a salty bread
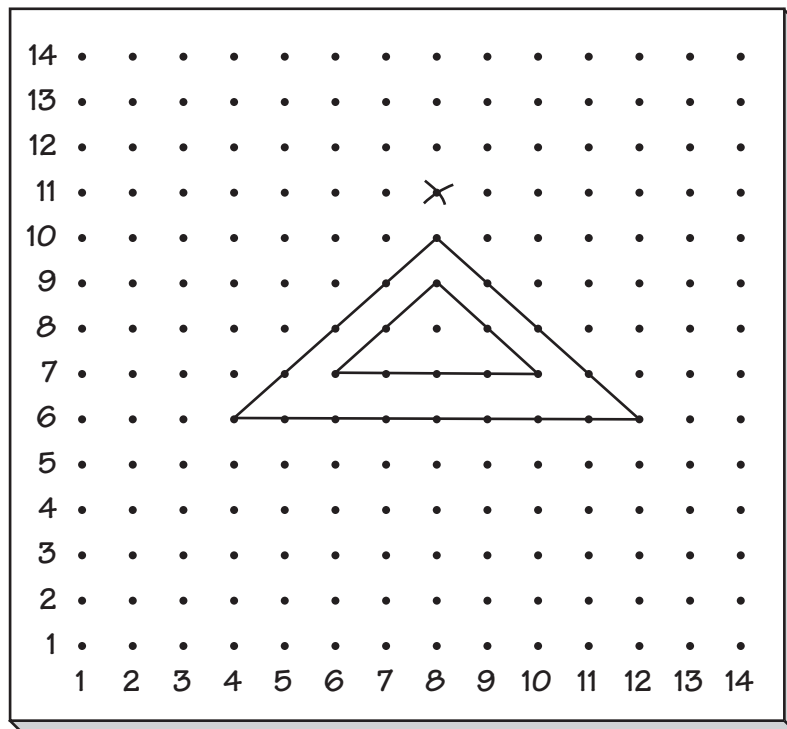
5 Alyssa is making a pattern by stretching rubber bands around nails on a board. All the triangles she makes have the same shape.

Part A

Alyssa is starting the next triangle at the nail marked with an **X** at the ordered pair (8, 11).

In the space below, draw Alyssa's third triangle.

Part B

On the lines below, write the ordered pairs of the nails that will be the other two corners of the new triangle.

(_____, _____) and (_____, _____)

Rubric

Exemplary Response:

3 Points

Part A

- Student response shows a larger triangle with vertices at (2, 5), (14, 5), and (8, 11).

AND

Part B

- Student response indicates that (2, 5) and (14, 5) are the coordinates of the new triangle not given in the item.

Score Points:

Apply 3-point holistic rubric.

Standard: 4.4.C Geometric and Spatial Sense

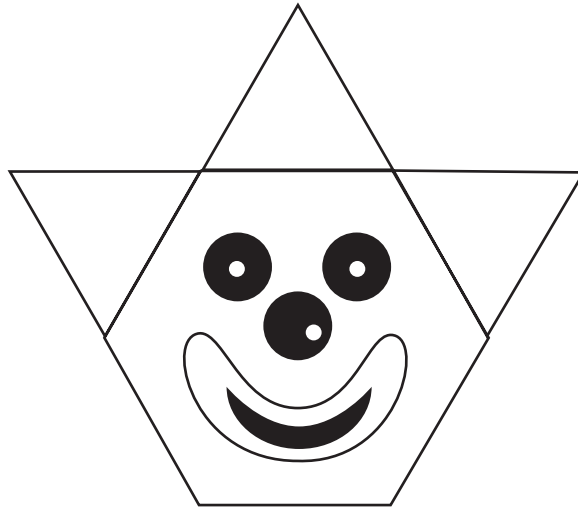**6**   Carmen put 6 buttons into each bowl.

Choose the number sentence that can be used to find the total number of buttons.

○ $6 + 7 = \square$

● $7 \times 6 = \square$

○ $6 + 6 + 6 + 6 + 6 + 6 = \square$

○ $7 + 7 + 7 + 7 + 7 + 7 + 7 = \square$

7 Kara used 1 yellow hexagon and 3 green triangles to make the clown shown below.

How many green triangles would she use to make 5 clowns?

○ 5

○ 8

○ 12

● 15

8 Richard made a list of the ages of his cousins.

Which age is the mode on his list?

○ 5

● 9

○ 11

○ 12

MY COUSINS

Name	Age
Joshua	9
Alan	11
Sophia	11
Sayo	19
Maria	5
Dennis	8
Francis	9
Vincent	9

9 Members of a 5th-grade class voted on their favorite outdoor activities. The results of the vote are shown in the table below. Study the table.

FAVORITE OUTDOOR ACTIVITY

Activity	Number of Votes
Baseball	卌 卌 ||||
Bike riding	卌 |||
Basketball	卌 卌
Soccer	||||

Part A

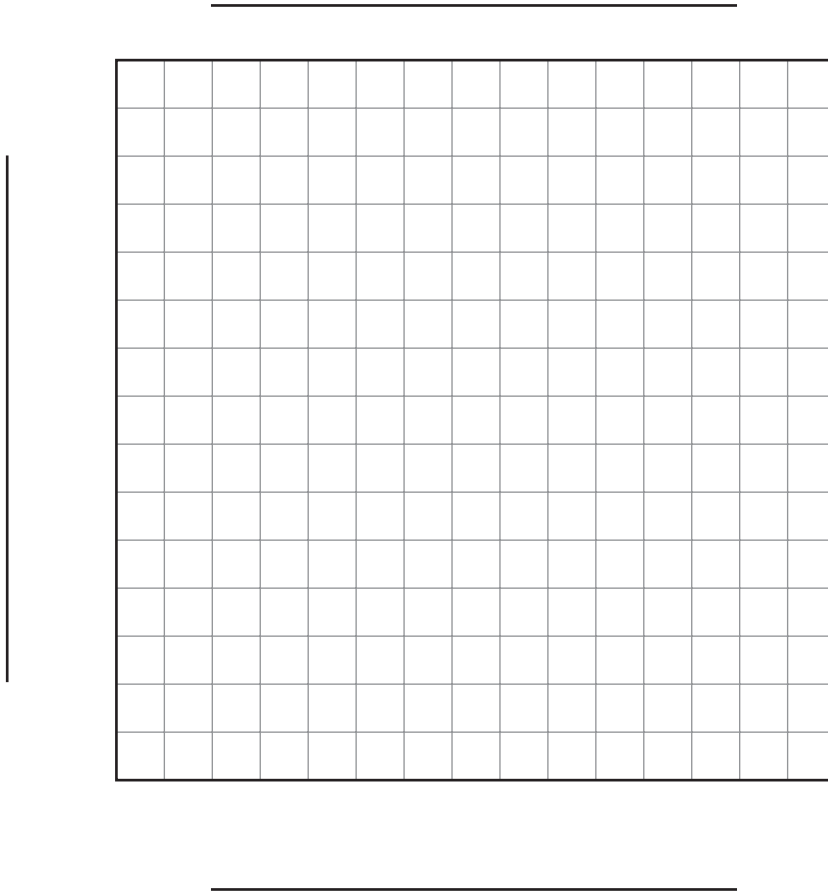Use the grid on page 2 to make a **bar graph** that shows the results of the vote.

Be sure to

- title your bar graph
- label each axis
- use an appropriate scale

Use grid on page 12

grid—pattern of lines that form squares

_____

_____

Part B

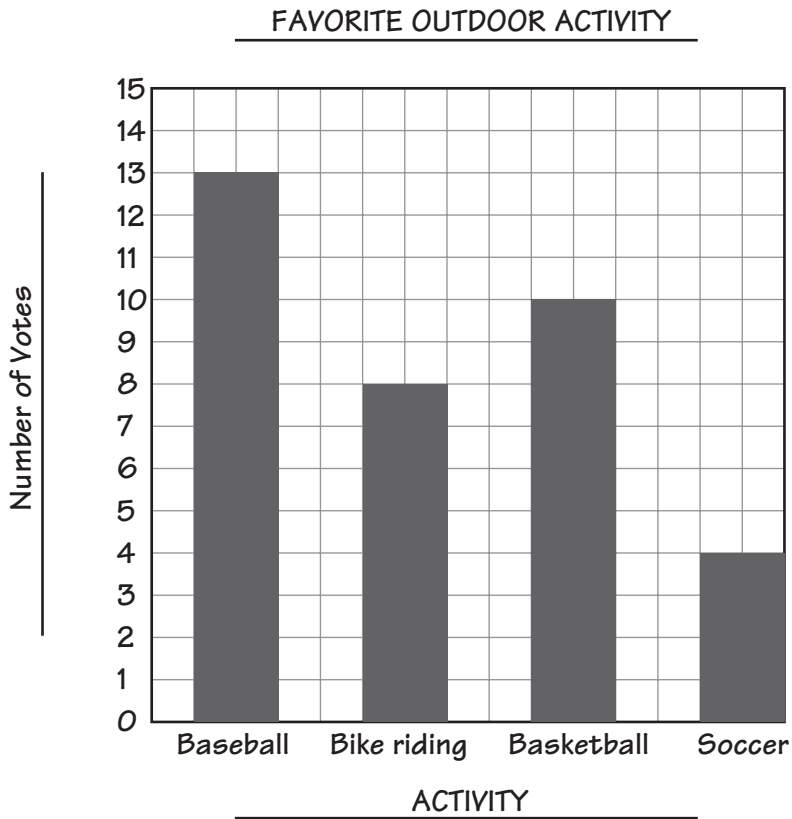On the lines below, write a question that can be answered from the information in your graph.

_____

_____

Rubric

Exemplary Response:

4 Points

Part A

*

FAVORITE OUTDOOR ACTIVITY

AND

Part B

*   Student writes a question that can be answered only with information from the graph.

Score Points:

Apply 4-point holistic rubric.

Standard: 3.1.B Data Analysis, Probability, and Statistics

10 Which of the following does **not** mean 48 ?

- ○ 10×4 and add 8
- ● 25×2 and subtract 8
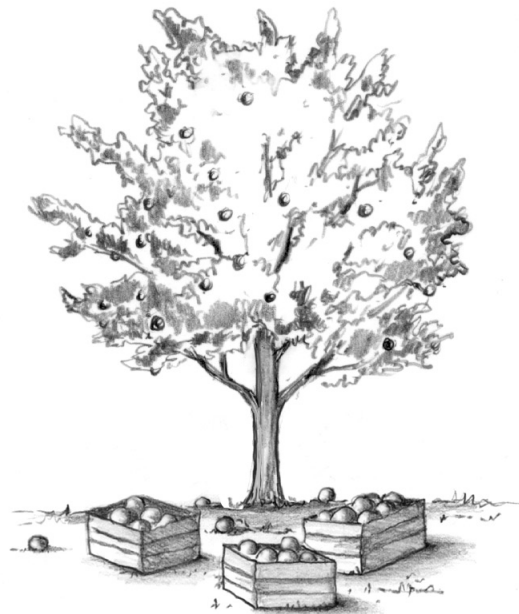- ○ 24 doubled
- ○ $12 + 12 + 12 + 12$

11 Use your punch-out ruler to help you solve this problem.

How long is this stick?

○ 5 centimeters

○ 6 centimeters

● $5\frac{1}{4}$ inches

○ $6\frac{1}{4}$ inches

12 Francis and Jim picked peaches.

Francis filled 5 boxes and Jim filled 3. If each box holds 27 peaches, how many more peaches did Francis pick than Jim? In the space below, show your work and write your answer on the line.

_____ more peaches

Rubric

Exemplary Response:

2 Points

- Student response shows a complete and correct process and a correct answer of 54 more peaches.

Score Points:

Apply 2-point holistic rubric.

Standard: 6.2.C Operation and Calculation

13 Look at the cards arranged in the pattern below. If the pattern continues, what will the next card be?

| △3 | ⑦ | ⑪ | ☐15 | △19 | ㉓ | ㉗ | ☐31 | **?** |

| ㉝ | △33 | △35 | ㉟ |
| ○ | ○ | ● | ○ |

arranged—put in order
according to a rule
continues—keeps on going

14 12.4 + 7.9 =

- ○ 19.3
- ○ 193
- ● 20.3
- ○ 203