

Mathematics, Grade 3, Scoring Guide

A1A3

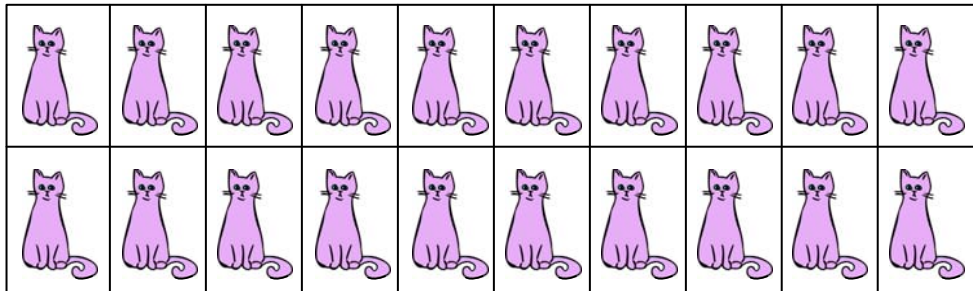
Which number would go next in this pattern?

1, 8, 1, 2, 8, 2, 3, 8, 3, _____

- A. 2
- B. 3
- C. 4*
- D. 5

A2A3

Look at the rows of cats below. Which number sentence matches the total number of cats in the rows?



- A. $4 \times 10 = 40$
- B. $1 \times 20 = 20$
- C. $2 \times 10 = 20^*$
- D. $2 \times 11 = 22$

A1B3

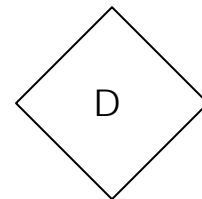
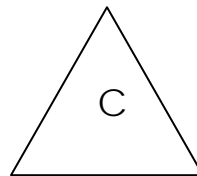
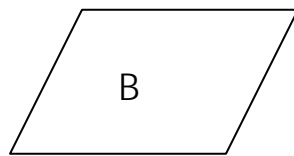
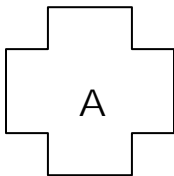
What is the missing number in the table?

In Number	3	5	7	9
Out Number	6	8	10	

- A. 9
- B. 10
- C. 11
- D. 12*

G3C3

Which two shapes have four lines of symmetry?



- A. A and B
- B. B and C
- C. C and D
- D. A and D*

A4A3

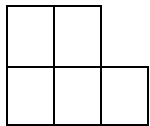
Last week, Bill's plant was 3 inches tall. This week it is 7 inches tall. Which describes the growth of Bill's plant?

- A. Bill's plant has grown 3 inches since last week.
- B. Bill's plant has grown 4 inches since last week.*
- C. Bill's plant has grown 7 inches since last week.
- D. Bill's plant has grown 10 inches since last week.

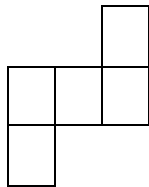
G3A3

Which two shapes are congruent?

Shape A



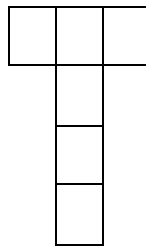
Shape B



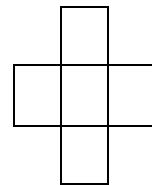
Shape C



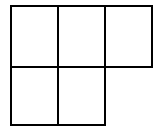
Shape D



Shape E



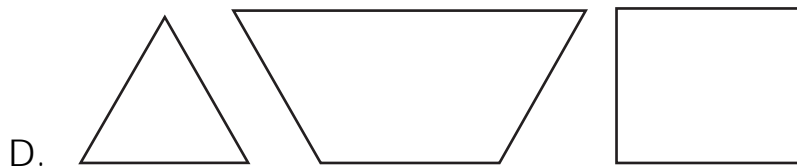
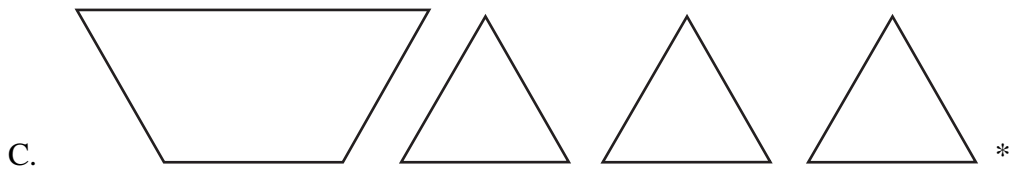
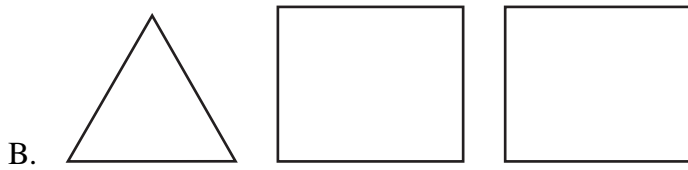
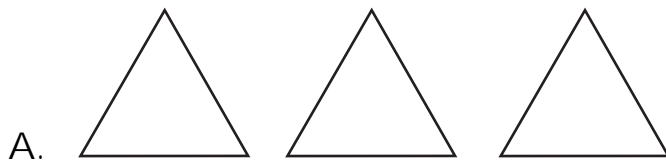
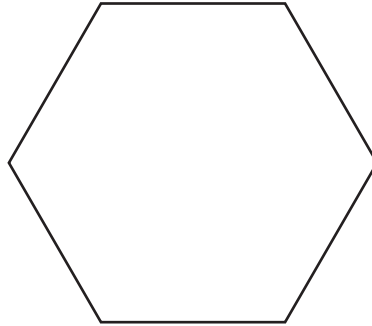
Shape F



- A. C and D
- B. B and C
- C. A and F*
- D. D and F

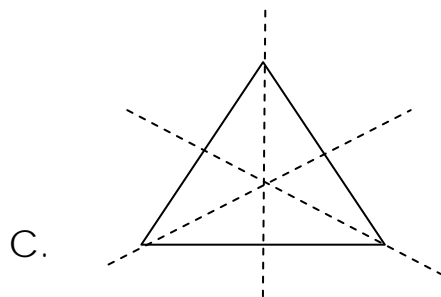
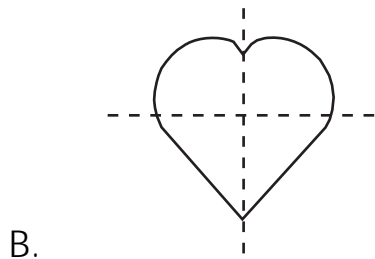
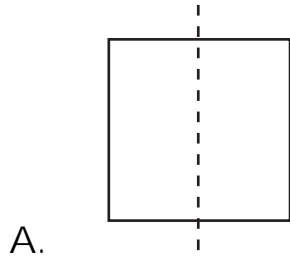
G1C3

Which group of shapes, when put together without overlapping, will make this shape?

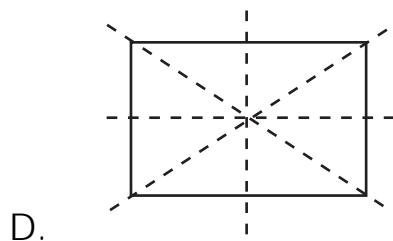


G3C3

Choose the shape that only shows **all** of the lines of symmetry.



*



A2A3

Ten students were on the playground. All but six of them were

on the swings. Which number sentence shows how many students were on the swings?

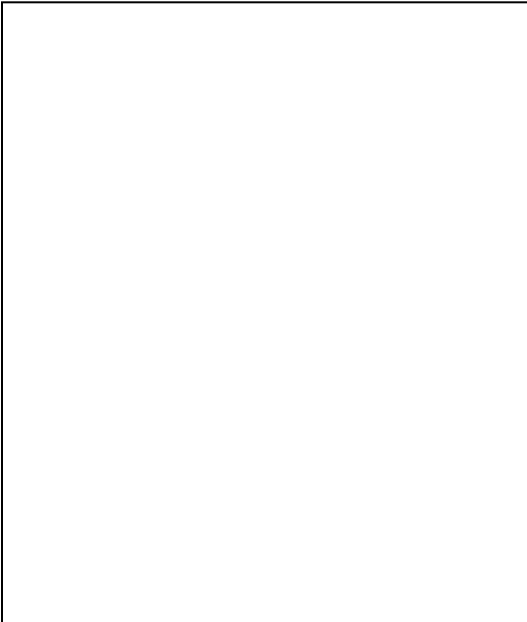
- A. $10 + 6 = 16$
- B. $16 - 6 = 10$
- C. $10 - 6 = 4^*$
- D. $10 + 4 = 14$

A3A3

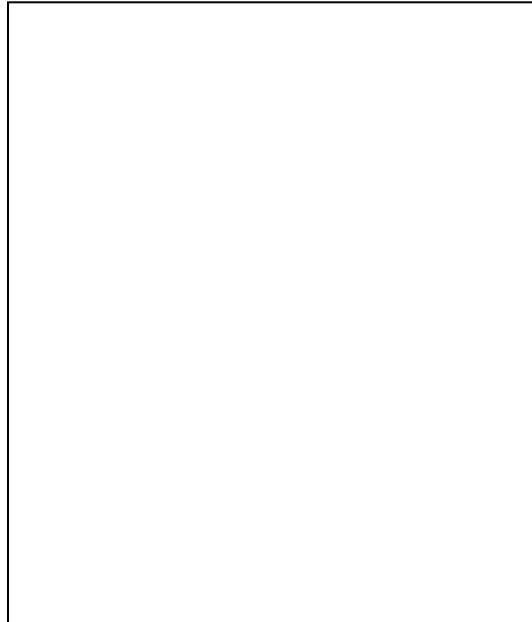
Bob and Beth each have the same kind of candy. They are trying to decide who has the most candy. Bob has arranged his pieces into 3 groups of 5 pieces each. Beth has arranged her candy into 5 groups of 3 pieces each.

Draw a picture to show each student's arrangement.

Bob's candy arrangement



Beth's candy arrangement



Do Bob and Beth have the same or a different amount of candy?

Scoring guide:

2 points – Correctly draws 3 x 5 and 5 x 3 representations **and** indicates the *same* amount of candy.

1 point – Correctly drawings **or** indicates *same* amount of candy.

0 points – Other.

A3A3

The third grade students will go on boat rides. Each boat can carry up to 3 students. Complete the chart putting 3 students in each boat.

Number of Boats	1	2	3	4	5	6	7
Number of Students	3	6		12			

If there are 26 students in the class, how many boats will be needed so that all students in the class can ride in a boat?

Show your work in this space.

Number of boats needed for 26 students: _____

Scoring guide:

2 points – Correctly completes chart (9, 15, 18, 21)**and** has correct number of 9 boats

1 point – Correctly completes chart **or** has correct number of 9 boats

0 points – Other

A1B3

The third grade class created a Number Machine that changes the number that is put in to a different number when it comes out. Complete the table with the last two Out Numbers.

IN	5	7	8	9	10
OUT	14	16	17		

Write the rule that explains how this Number Machine works:

Scoring guide:

2 points – Correctly completes chart (18, 19) **and** has correct rule for Machine (IN+ 9).

1 point – Correctly completes chart (18, 19) **or** has correct rule for Machine (IN + 9)

0 points – Other

A2B3

Fill in the blanks to show the commutative property of addition.

$$\underline{\hspace{2cm}} + 8 = 8 + \underline{\hspace{2cm}}$$

Write another equation that shows the commutative property of addition:

Scoring guide:

2 points – Both examples of the commutative property are correct **and** the second equation is different from the first.

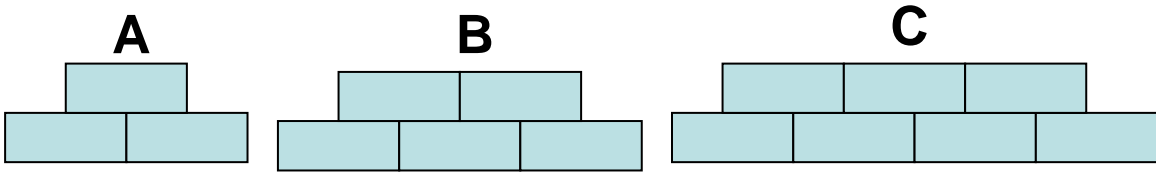
1 point – One example of the commutative property is correct.

0 points – Other.

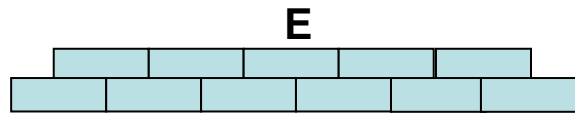
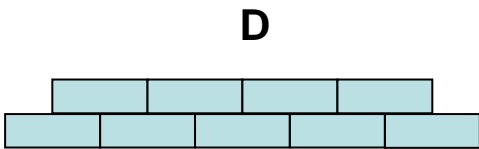
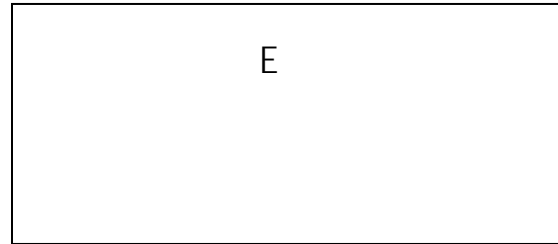
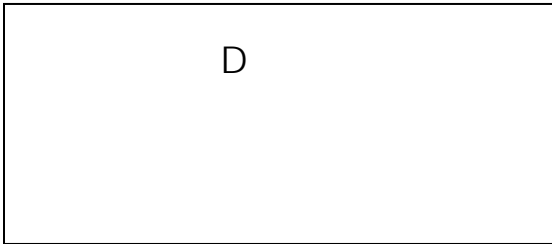
Exemplary responses: any number will work in the blanks as long as the same number is in both blanks; the second equation must use the same numbers on both sides of the equation but in a different order.

A1A3

Mrs. Jason put the following shape pattern on the board.



Draw the next two figures in the pattern:



Describe this pattern:



- 2 points – Correctly extends the pattern (shown above) **and** includes an acceptable pattern description (add 1 rectangle to the top and bottom row each time; start with three add 1 rectangle to the top and bottom row each time, etc.)
- 1 point – Correctly extends the pattern (shown above) **or** includes an acceptable pattern description (add 1 rectangle to the top and bottom row each time; start with three add 1 rectangle to the top and bottom row each time, etc.)
- 0 points – Other