

Mathematics, Grade 3, Scoring Guide

A1A3

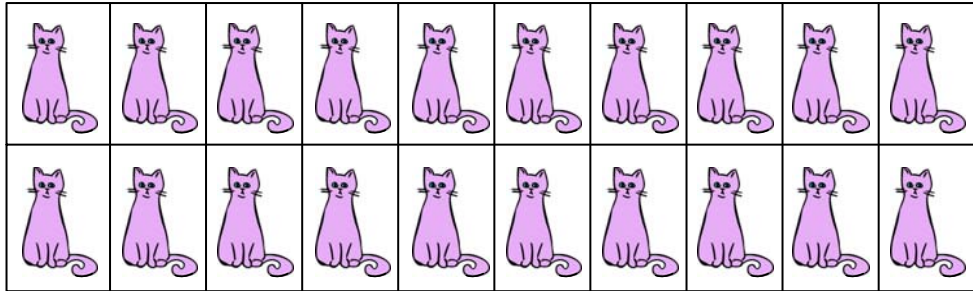
Which number would go next in this pattern?

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

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

A2A3

Which number sentence matches these cat pictures?



- A. $4 \times 10 = 40$
- B. $5 \times 4 = 20$
- C. $2 \times 10 = 20^*$
- D. $2 \times 11 = 22$

A1B3

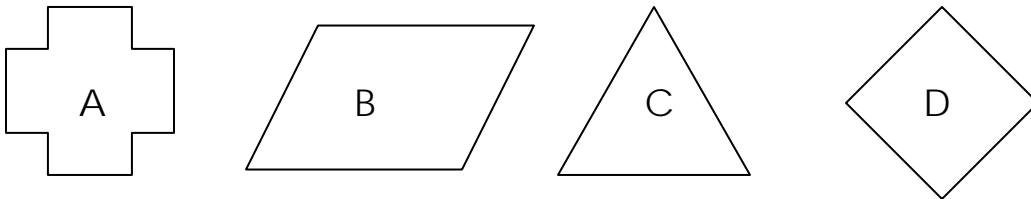
What is the missing number in the table?

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

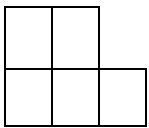
Last week, Bill’s plant was 3 inches tall. This week it is 7 inches tall. Which describes the growth of Bill’s plant?

- 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.

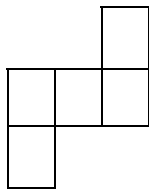
G3A3

Which two shapes are congruent?

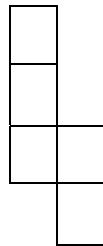
Shape A



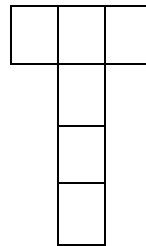
Shape B



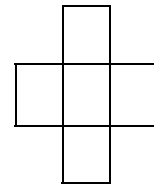
Shape C



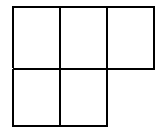
Shape D



Shape E



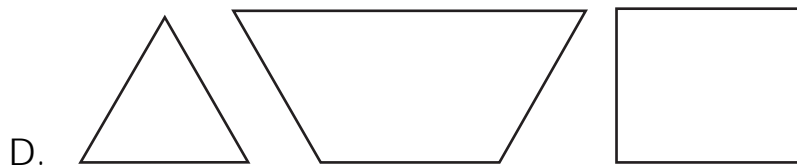
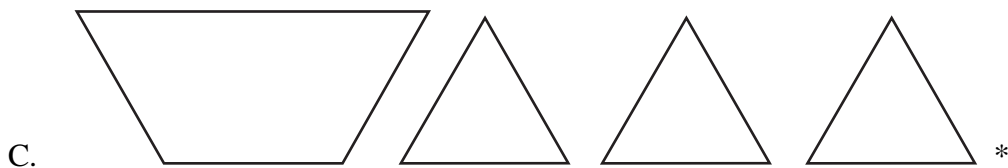
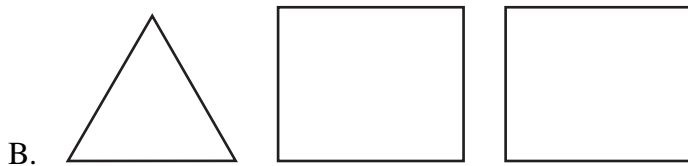
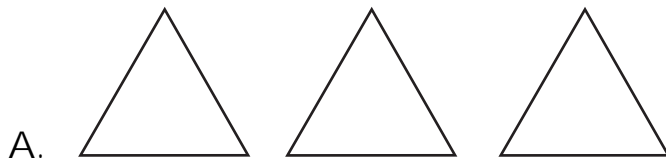
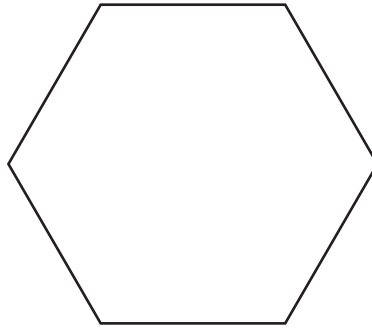
Shape F



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

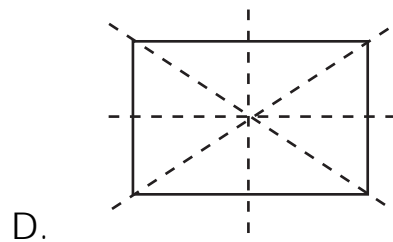
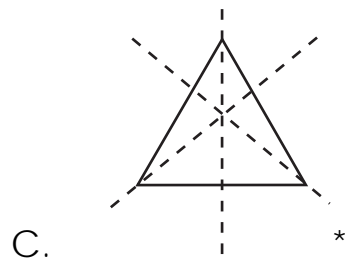
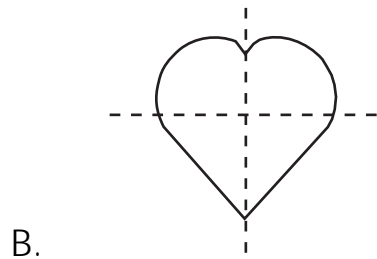
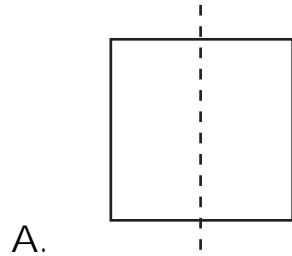
G1C3

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



G3C3

Choose the shape that has **all** lines of symmetry shown.



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. $10 - 6 = 4^*$

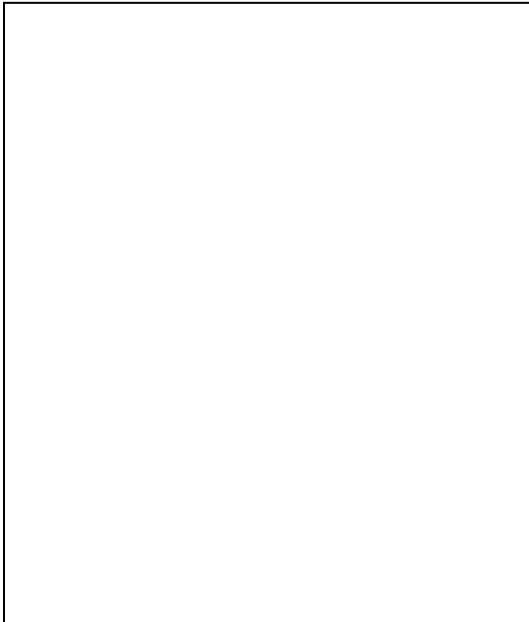
D. $10 + 4 = 14$

A3A3

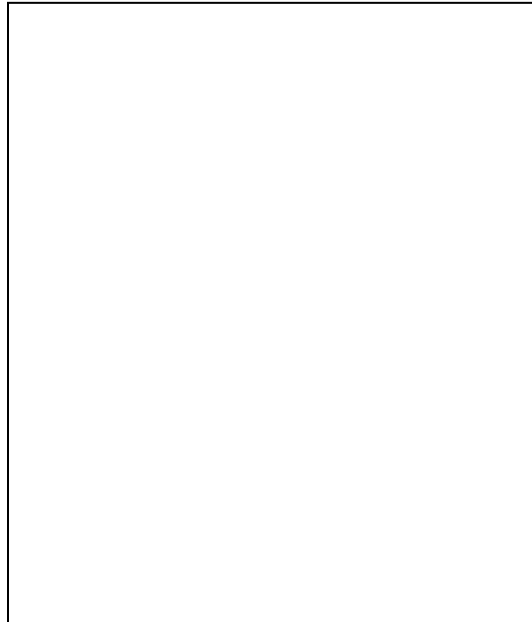
Bob and Beth each have the same kind of candy. They are trying to decide who has the most candy. Bob has arranged his pieces into 3 groups of 5 pieces each. Beth has arranged her candy into 5 groups of 3 pieces each.

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.

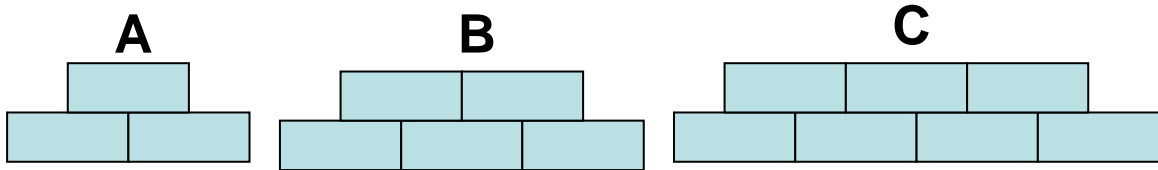
1 point – One example of the commutative property is correct.

0 points – Other.

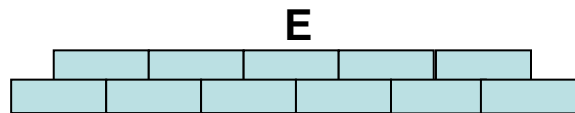
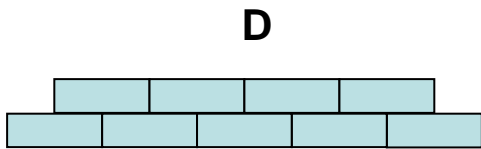
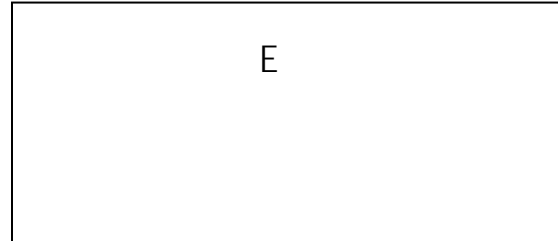
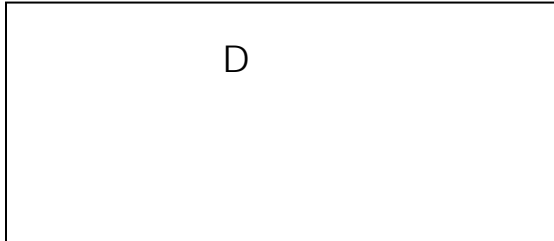
Exemplary responses: any number will work in the blanks as long as the same number is in both blanks; the second equation must use the same numbers on both sides of the equation but in a different order.

A1A3

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



Draw the next two figures in the pattern:



Describe this pattern:

A large empty rectangular box with a black border, intended for writing a description of the pattern.

Scoring guide:

- 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