

Grades  
**6–8**

Common Core  
**Progress**  
**Monitor**



**Mathematics**

**Student**  
**Benchmark Assessments**

Monitor student progress and guide instruction with all the question types they'll encounter on the Common Core assessments with *Common Core Progress Monitor Mathematics, Grades 1–8*.

To PREVIEW ONLINE, visit:  
[www.Sadlier.com/PM\\_Math](http://www.Sadlier.com/PM_Math)

## Selected-Response Items

**31.** Students hiked 32 miles on a 4-day hiking trip. At that rate, how many miles will the students hike on a 6-day hiking trip?

- A 8 miles
- B 48 miles
- C 80 miles
- D 216 miles

Grade 6

**28.** Which of the following are unit rates?

- I 6 players on each team
  - II 21 silver bicycles out of 100 bicycles
  - III 55 miles per hour
  - IV 11 cabins to 77 campers
- A I and III
  - B II and IV
  - C II, III, and IV
  - D I, II, III, and IV

Grade 6

## Selected-Response Items continued

- 37.** Gerald and Tom went on a fishing trip. The line plots show the weight, in pounds, of all the fish caught by each boy.

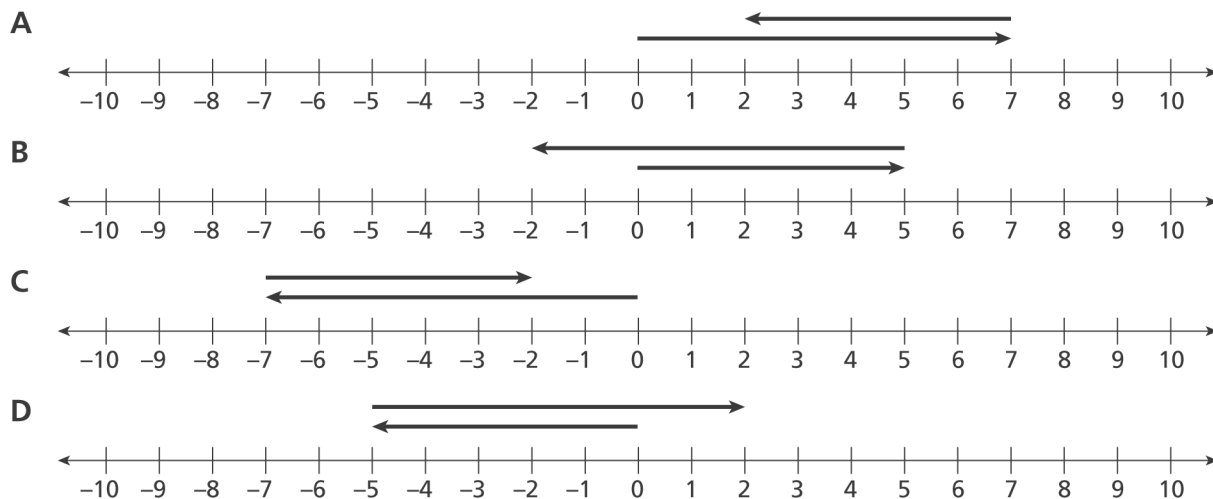


What is the difference in the mean weight of Gerald's and Tom's catches?

- A** 0.3 pound   **B** 3.1 pounds   **C** 2.8 pounds   **D** 5.7 pounds

Grade 7

- 1.** Florence starts walking along a trail. Florence walks 7 miles along the trail before stopping. Florence turns and walks back 5 miles before stopping again. Florence's movement along the trail can be shown by the expression  $7 + -5$ . Which number line diagram can be used to represent this situation?



Grade 7

25. Which systems of equations have no solution?

System 1: 
$$\begin{cases} x + y = 0 \\ x - y = 8 \end{cases}$$

System 2: 
$$\begin{cases} 6x - y = 12 \\ 6x - y = 8 \end{cases}$$

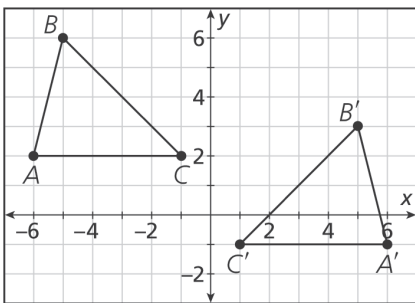
System 3: 
$$\begin{cases} x - 4y = -3 \\ 2x - 8y = -6 \end{cases}$$

System 4: 
$$\begin{cases} 2x + 3y = 12 \\ 6x + 9y = 12 \end{cases}$$

- A Systems 2 and 4
- B Systems 2 and 3
- C Systems 1 and 3
- D Systems 2, 3, and 4

Grade 8

35. Which sequence of transformations could be used to show that triangle  $ABC$  is congruent to triangle  $A'B'C'$ ?



- A a translation of 3 units down and 2 units right
- B a reflection across the  $x$ -axis followed by a translation of 2 units right
- C a reflection across the  $y$ -axis followed by a translation of 3 units down
- D a rotation of  $90^\circ$  clockwise about the origin followed by a translation 3 units down

Grade 8

## Constructed-Response Items

- 59.** Describe a real-world situation that could be represented by the expression  $6p + 4$ . What does  $p$  represent?

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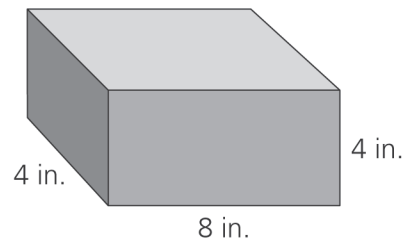
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Grade 6

- 68.** Ellen made the gift box shown from a net of a rectangular prism.  
Draw a net of the gift box.



How can you use the net to find the surface area of the gift box?  
Explain your answer using numbers, symbols, and words.

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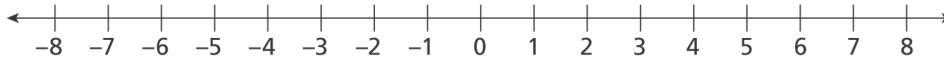
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Grade 6

## Constructed-Response Items *continued*

- 68.** Brad and Jane are playing a board game with spaces set up like a number line. They use a numbered cube with six selected positive and negative integers to determine how many spaces their game pieces can move. The game requires moving the pieces up (+) or down (–) on the board based on the number tossed.

Jane and Brad both start at zero and the player who gets to 7 or –7 first wins.



The table shows the results of Jane’s and Brad’s first four tosses.

Player	Turn 1	Turn 2	Turn 3	Turn 4	Turn 5
Brad	–3	–1	+3	–4	-
Jane	+3	–2	+5	+1	-

- A** Who moved a greater distance during Turn 1? Explain your answer.

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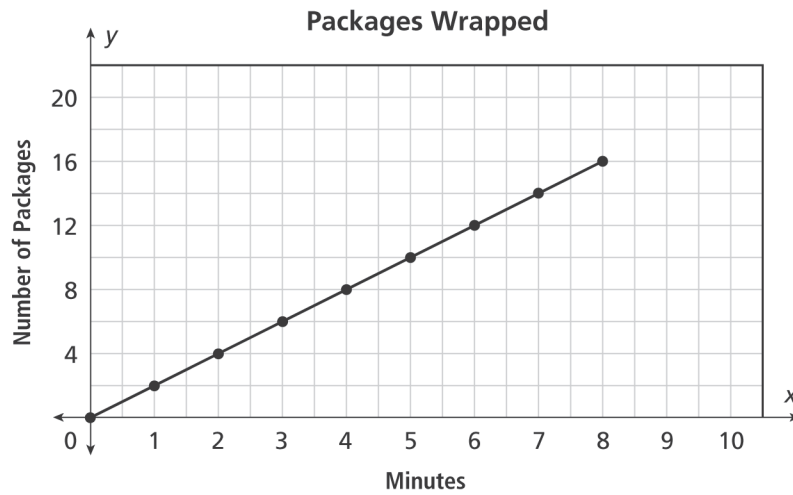
- B** Explain why Jane and Brad do not toss the numbered cube for Turn 5.

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Grade 7

- 41.** The graph below represents the number of packages being wrapped at a factory.



Explain what the point (6, 12) means in terms of this situation.  
 What does the point (0, 0) represent?

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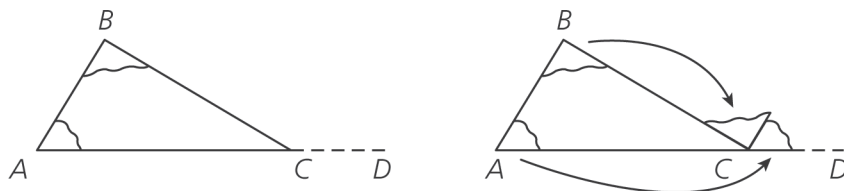
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Grade 7

- 57.** Erik drew triangle  $ABC$  and exterior angle  $BCD$ . Erik then tore off angles  $A$  and  $B$  and fit the angles on exterior angle  $BCD$  as shown.



What can Erik prove about the measure of the exterior angle of a triangle? Explain how this can be proven.

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Grade 8

## Constructed-Response Items *continued*

**56.** Steven was offered a sales job. If he accepts the job, Steven will earn a weekly salary plus  $x$  dollars for each appliance he sells.

Steven asks about the job and is told the following:

- Sell 10 appliances: total earnings for the week will be \$550.
- Sell 15 appliances: total earnings for the week will be \$725.

Write a linear equation in the form  $y = mx + b$  to represent  $y$ , the total earnings if Steven accepts the job and sells  $x$  appliances. Explain how you know your answer is correct.

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Grade 8



## Technology-Enhanced Like Items

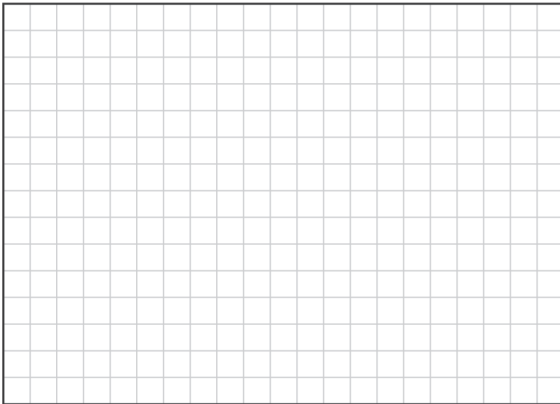
**56.** Draw a line to match each unit rate with a related ratio.

6 feet per hour	24 cars in 4 minutes
6 feet per minute	24 feet in 4 minutes
6 cars per hour	24 feet in 4 hours
6 cars per minute	24 cars in 4 hours

Grade 6

**43.** Derek wants to draw a three-sided figure with angle measures  $60^\circ$ ,  $60^\circ$  and  $60^\circ$ .

**A** Draw and label Derek's figure on the grid.



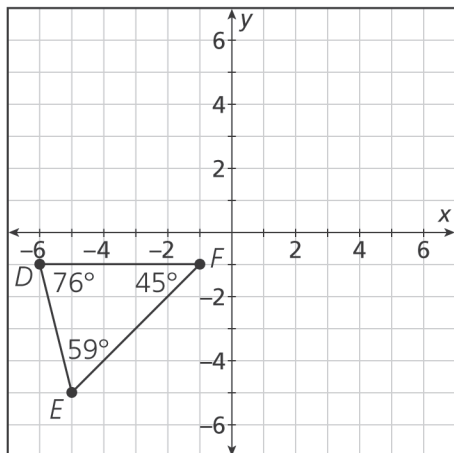
**B** What figure did you draw? Explain.

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Grade 7

- 65.** Reflect triangle  $DEF$  across the  $x$ -axis to form triangle  $D'E'F'$ .  
Label the angle measures of the image.



Grade 8

## Performance Tasks

Each grade level includes *Unit*, *Mid-* and *End-of-Year Performance Tasks*. *Unit Performance Tasks* are available online at **SadlierConnect.com**.

Mid- and End-of-Year Performance Tasks (*Performance Tasks 1 and 2*) are available in the Student Worktext and online at **SadlierConnect.com**.