



Standard	Items
MCC6.NS.2	1, 4, 13
MCC6.NS.3	2-3, 5-6, 9, 11, 14-18
MCC6.NS.4	7-8, 12
MCC6.EE.7	10

## TEST PREP DOCTOR

### Selected Response: Item 1

- Students who answered **A** multiplied 6 times 24 and divided by 17.
- Students who answered **B** rounded up instead of down.
- Students who answered **D** multiplied 6 times 24 and divided by 17 and rounded up.

### Selected Response: Item 3

- Students who answered **A** subtracted the width from the length and then multiplied by two. The student does not understand the formula for finding the perimeter of a rectangle.
- Students who answered **B** added the length of only one side and one width. The student did not include the length and width of the other sides to find the perimeter.
- Students who answered **D** multiplied the length times the width and found the area of the figure, not the perimeter.

### Selected Response: Item 5

- Students who answered **A** added the amounts of money Rusty had in his jar and wallet but did not subtract this total from the purchase price of the sweater. Thus, the amount needed was not found.
- Students who answered **B** subtracted the amount of money in his wallet from the purchase price of the sweater but did not subtract the amount in his jar.
- Students who answered **C** subtracted the amount of money in his jar from the purchase price of the sweater but did not subtract the amount in his wallet.

### Selected Response: Item 7

- Students who answered **B** found the greatest factor of 8, but not the GCF of 8 and 12.
- Students who answered **C** found a factor of 12.
- Students who answered **D** found a common factor of 8 and 12, but not the GCF.

### Constructed Response: Item 14

- Students who answered **\$5.99** added the cost per pound to the weight of the bag of apples.
- Students who answered **\$3.41** subtracted the cost per pound from the total weight of the apples.
- Students who answered **\$6.07** did not round to the nearest cent correctly.
- Students who answered **\$3.65** divided the weight of the apples by the price per pound.

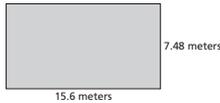
Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

**SELECTED RESPONSE**

- Mr. Gonzalez's sixth-grade class is putting on a play. He reserved the first 6 rows of the auditorium for family members and friends of the 24 students in his class. If each row contains 17 seats and each student can invite the same number of guests, how many guests can each student invite?
 

A. 8 guests      **C. 4 guests**  
 B. 5 guests      D. 9 guests
- A snail travels 0.03 mile per hour. How far will the snail travel in 36.8 hours?
 

F. 0.1104 miles      H. 11.04 miles  
**G. 1.104 miles**      J. 110.4 miles
- A rectangular garden has the dimensions shown in the figure.



What is the perimeter of the garden?

- A. 16.24 meters      **C. 46.16 meters**  
 B. 23.08 meters      D. 116.688 meters
- One hundred thirty four sixth-grade students sit together in the auditorium. Each row has 12 seats. How many rows do the sixth graders need?
 

F.  $10\frac{5}{6}$       **H.  $11\frac{1}{6}$**   
 G. 132      J. 146

- Rusty has \$25.45 in the bank and \$16.18 in his wallet. He wants to purchase a sweater that costs \$49.99. How much more money does he need?
 

A. \$41.63      C. \$24.54  
 B. \$33.81      **D. \$8.36**

- Adam drove from his house directly to one of the destinations shown in the table. Adam's trip odometer read 248.9 miles when he left home and 316.3 miles when he reached his destination. What was his destination?

Destination	Distance from Adam's House
Museum	64.6 miles
Baseball stadium	67.4 miles
Theater	70.4 miles
Historical landmark	66.4 miles
Mall	71.4 miles

- F. Mall  
 G. Theater  
 H. Historical landmark  
**J. Baseball stadium**
- A sixth-grade class has 12 boys and 8 girls. The teacher wants to divide them into groups that have the same number of boys and the same number of girls. What is the greatest possible number of groups the teacher can make?
 

**A. 4 groups**      C. 6 groups  
 B. 8 groups      D. 2 groups
  - Find the GCF of 72 and 96.
 

F. 13      H. 144  
**G. 24**      J. 3

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- An automated call machine can handle 8.86 minutes of calls before it sends a report. How many reports would it send for 53.16 minutes of calls?
 

A. 0.06 report      **C. 6 reports**  
 B. 0.6 report      D. 60 reports
- In 2007, Jacksonville Jaguars running back Maurice Jones-Drew averaged 4.6 yards per carry on 167 carries. He also averaged 10.2 yards per catch on 40 catches. Which is the best estimate of the total yards gained by Jones-Drew in 2007?
 

F. 255 yards      H. 750 yards  
 G. 400 yards      **J. 1,150 yards**

**CONSTRUCTED RESPONSE**

- You deposited \$45.25 in your checking account, but instead of adding \$45.25 to your balance, the bank accidentally subtracted \$45.25. How much money should the bank add to your account to correct the mistake? Explain.  
590.50; Add \$45.25 twice, once for the accidental subtraction and once for the actual deposit.
- Write the sum as a product of the GCF and a sum:  $39 + 91$ .  
 $13(3 + 7)$
- Tim's grandfather lends him \$105 to buy a new cell phone. Each week Tim pays his grandfather \$15. How many weeks will it take Tim to pay back all the money?  
7 weeks

- Apples cost \$1.29 per pound. How much would a bag of apples weighing 4.7 pounds cost? (Round your answer to the nearest cent.)  
\$6.06
- A bridge is 21.6 meters long. A nearby tunnel is 2.3 times as long as the bridge. How long is the tunnel?  
49.68 meters
- Explain how to draw a model to find the quotient of  $2.4 \div 3$ . What is this quotient?  
Use 3 decimal grids divided into tenths. Shade 2 whole grids and 4 tenths of the 3rd grid. Divide the shaded sections into 3 equal groups to show that  $2.4 \div 3 = 0.8$ .

- Tom has \$15.86 to buy marbles that cost \$1.25 each. He wants to know how many marbles he can buy. What should he do after he divides? How many marbles can he buy?  
Round down to the nearest whole number; 12 marbles
- Kelly needs to make 8 ladders for the school play. Each ladder has 9 rungs and each rung is 1.6 ft in length.
  - How many feet of wood are needed to make the rungs for one ladder?  
14.4 ft
  - If the rungs of the ladder are cut from 12ft-long pieces of wood, how many pieces of wood does Kelly need to buy to make all 8 ladders? Explain.  
Kelly can cut 7 rungs from one piece of wood, and she needs 72 rungs.  $72 \div 7 \approx 10.3$ ; she needs 11 pieces of wood.

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