Algebra: Find Perimeter

Write the correct answer.

1. Pete’s pizza came in a square box. The length of one side was 12 in. What was the perimeter of the pizza box?

2. Art drew a triangle with a perimeter of 34 in. He found that two of the sides were 12 in. and 8 in. long. What is the length of the third side?

3. Sarah bought 1 can of soda and 5 boxes of cookies. The soda cost $1.00 and each box of cookies cost $1.89. Write an equation to solve for the total cost of Sarah’s purchase.

Choose the letter of the correct answer.

4. Alex read that 495,301 people voted during the last election for mayor. Write the number of voters in expanded form.

5. Stephanie recorded the temperature every day for 5 days. The average temperature was 52°F. Which set of numbers could be the temperatures Stephanie recorded?

   A  63, 76, 42, 53, 75
   B  42, 32, 35, 50, 51
   C  31, 45, 55, 34, 74
   D  39, 58, 59, 36, 65

6. Tom found that the sum of the perimeters of two triangles was 49 cm. The sides of the first triangle measured 13 cm, 12 cm, and 15 cm. Which set of lengths could be the sides of the other triangle?

   F  2 in., 3 in., 4 in.
   G  9 cm, 10 cm, 10 cm
   H  2 cm, 3 cm, 4 cm
   J  5 cm, 4 cm, 2 cm

7. Which shows the Commutative Property of Addition?

   A  7 + 0 = 7
   B  5 + 6 = 2 + 3 + 6
   C  4 + 9 = 9 + 4
   D  3 + (5 + 4) = (3 + 5) + 4

8. Gary wants to hang his math test on the refrigerator. How much tape will he need to surround the 8 1/2 in. × 11 in. paper with red masking tape?

   F  19 1/2 in  
   G  39 in.
   H  41 in.
   J  93.5 in.

9. Write About It  Explain your solution to Problem 6.
Algebra: Find Perimeter
Write the correct answer.

1. Pete's pizza came in a square box. The length of one side was 12 in. What was the perimeter of the pizza box? 48 in.

2. Art drew a triangle with a perimeter of 34 in. He found that two of the sides were 12 in. and 8 in. long. What is the length of the third side? 14 in.

3. Sarah bought 1 can of soda and 5 boxes of cookies. The soda cost $1.00 and each box of cookies cost $1.89. Write an equation to solve for the total cost of Sarah's purchase. $t = 1.00 + (5 \times 1.89); \$10.45$

4. Alex read that 495,301 people voted during the last election for mayor. Write the number of voters in expanded form. $400,000 + 90,000 + 5,000 + 300 + 1$

Choose the letter of the correct answer.

5. Stephanie recorded the temperature every day for 5 days. The average temperature was 52°F. Which set of numbers could be the temperatures Stephanie recorded?
   - A 63, 76, 42, 53, 75
   - B 42, 32, 35, 50, 51
   - C 31, 45, 55, 34, 74
   - D 39, 58, 59, 39, 65

6. Tom found that the sum of the perimeters of two triangles was 49 cm. The sides of the first triangle measured 13 cm, 12 cm, and 15 cm. Which set of lengths could be the sides of the other triangle?
   - F 2 in., 3 in., 4 in.
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7. Which shows the Commutative Property of Addition?
   - A $7 + 0 = 7$
   - B $5 + 6 = 2 + 3 + 6$
   - C $4 + 9 = 9 + 4$
   - D $3 + (5 + 4) = (3 + 5) + 4$

8. Gary wants to hang his math test on the refrigerator. How much tape will he need to surround the 8$\frac{1}{2}$ in. $\times$ 11 in. paper with red masking tape? F $19\frac{1}{2}$ in. H 41 in.
   - G 39 in. J 93.5 in.

9. Write About It  Explain your solution to Problem 6.
   **Possible answer:** I found the perimeter of the first triangle by solving $13 + 12 + 15 = 40$. Then I subtracted $49 - 40$, so I knew the perimeter of the second triangle had to be 9. Then I used guess and check to find the correct set of lengths.