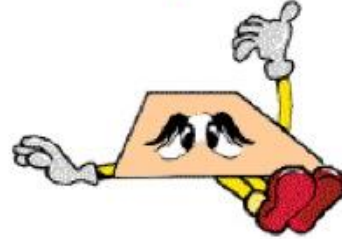


## 5BC – Quadrilaterals “Pre-Test Quizzipoo”

1. Which statements describe the properties of a **trapezoid**?

- a. The bases are parallel.
- b. The diagonals are congruent.
- c. The opposite angles are congruent.
- d. The base angles are congruent.



2. Which statements describe the properties of a **rhombus**?

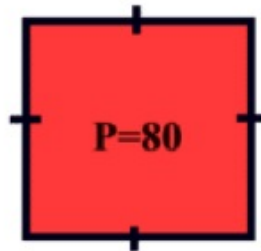
- a. The diagonals are perpendicular.
- b. The diagonals are congruent.
- c. The diagonals bisect each other.
- d. The diagonals bisect the angles.



3. The perimeter of a square is 80.  
What is the area of the square?

**Choose:**

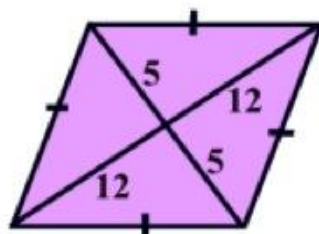
- 20
- 80
- 160
- 400



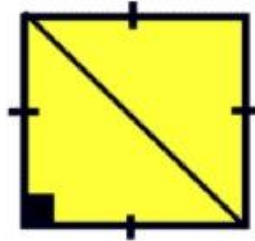
4. The diagonals of a rhombus are 10 and 24.  
Find the perimeter of the rhombus.

**Choose:**

- 13
- 40
- 52
- 48



5. The perimeter of a square is 24.  
In simplest radical form, find the length of the diagonal of the square.



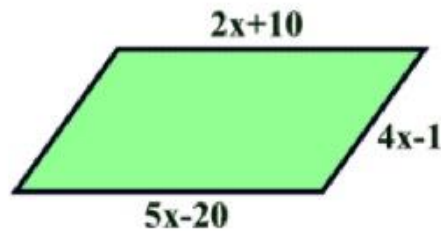
**Choose:**

- $6\sqrt{2}$
- $6\sqrt{3}$
- $\sqrt{72}$
- $\sqrt{108}$

6. The opposite sides of a parallelogram are represented by  $2x + 10$  and  $5x - 20$ .  
Find the length of the side of the parallelogram represented by  $4x - 1$ .

**Choose:**

- 10
- 30
- 39
- 40



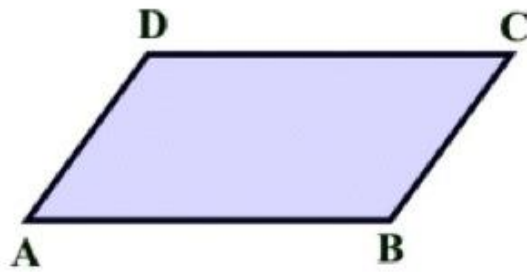
7. If one angle of a parallelogram is 60 degrees,  
find the number of degrees in the remaining 3 angles.

**Choose:**

- 60, 60, 60
- 30, 60, 90
- 60, 120, 120
- 60, 120, 150

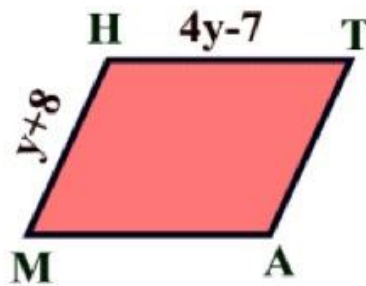


8. The measures of angles  $A$  and  $B$  of parallelogram  $ABCD$  are in the ratio of  $2 : 7$ . Find the measure of angle  $A$ . **Choose:**



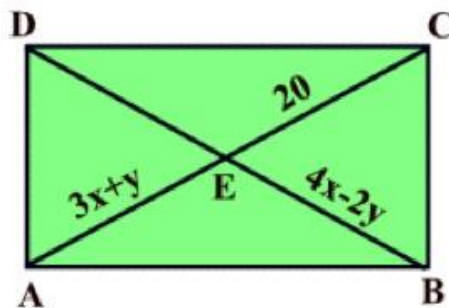
- 20
- 40
- 70
- 140

9. In rhombus  $MATH$ ,  $MA = y + 8$  and  $AT = 4y - 7$ . Find  $MA$ . **Choose:**



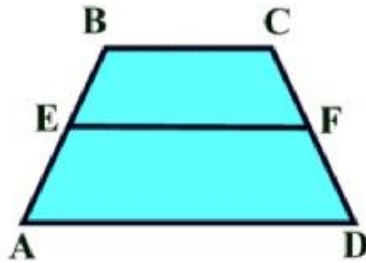
- 5
- 8
- 10
- 13

10. In rectangle  $ABCD$ , the diagonals intersect at  $E$ . If  $AE = 3x + y$ ,  $BE = 4x - 2y$ , and  $CE = 20$ , find  $x$  and  $y$ . **Choose:**



- $x = 3, y = 11$
- $x = 7, y = 4$
- $x = 7, y = -1$
- $x = 6, y = 2$

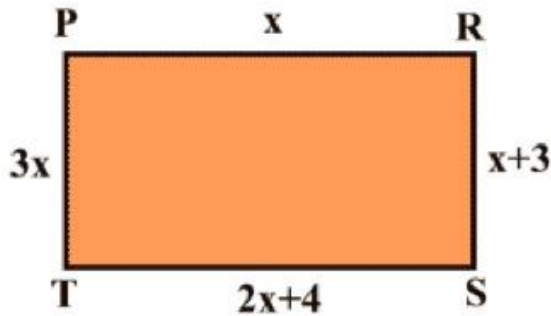
11.  $EF$  is the median (mid-segment) of trapezoid  $ABCD$ .  
 $EF = 25$  and  $AD = 40$ . Find  $BC$ .



Choose:

- 5  
 10  
 30  
 50

12. In quadrilateral  $PRST$ , the perimeter is 49.  
 $PR = x$ ,  $RS = x + 3$ ,  $ST = 2x + 4$ , and  $TP = 3x$ .  
 Find the length of the shortest side of the quadrilateral.



Choose:

- 6  
 7  
 9  
 18

13. YODA is a quadrilateral. Sketch and classify YODA as specifically as possible.  
 You must support, with numbers, how you know what it is or isn't!

$Y(-6, 4)$   $O(-4, 6)$   $D(3, 0)$   $A(0, -3)$