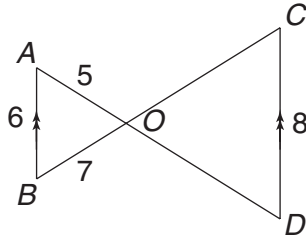
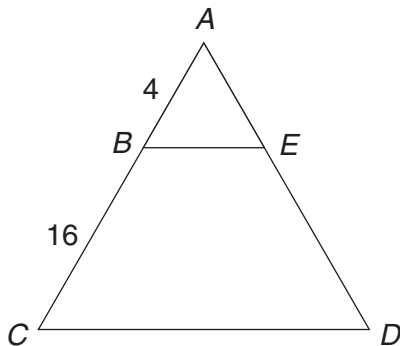


GRADE 10 Focus on Sunshine State Standards: Benchmark Tests
MA.912.G.2.3 Benchmark Pre-Test (Multiple Choice)

1. If \overline{AB} is parallel to \overline{CD} in the diagram, what is the approximate length of \overline{OD} ?

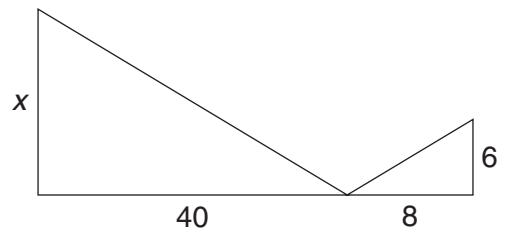


- A. 6.7 units C. 9.0 units
 B. 7.0 units D. 9.3 units
2. A triangle has a base length of 20 units and perimeter of 66 units. If a similar triangle has a base of 15 units, what is its perimeter?
- F. 49.5 units
 G. 51 units
 H. 56 units
 I. 61 units
3. \overline{BE} is parallel to \overline{CD} . The length of \overline{AB} is 4, \overline{CB} is 16, and the perimeter of triangle ABE is 20.



- What is the perimeter of triangle ACD ?
- A. 24 units C. 80 units
 B. 36 units D. 100 units

4. Use the diagram. What is the value of x if both triangles are right triangles and the top angles of the two triangles are equal.



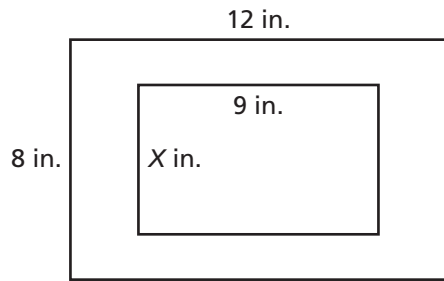
- F. 30
 G. 32
 H. 38
 I. 53.3
5. Triangle ABC with vertices $A(2, 3)$, $B(2, 6)$, and $C(4, 6)$ is similar to triangle DEF with vertices $D(6, 9)$, $E(6, 24)$, and F . Which of the following could be the coordinates of F ?
- A. $(-4, 24)$
 B. $(12, 18)$
 C. $(-6, -24)$
 D. $(-4, -18)$

GRADE 10 **Focus on Sunshine State Standards: Benchmark Tests**
MA.912.G.2.3 Benchmark Pre-Test (Gridded Response)

Use the Gridded Response Answer Sheet.

6. Two gardens are in the shape of congruent triangles KLM and PQR . $KL = PQ = 6$, and $KM = 15$. How many feet long is \overline{PR} ?

7. The diagram shows two sizes of picture frames. They are similar rectangles.



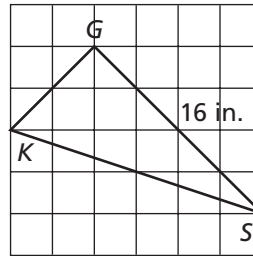
What is x , the width of the smaller frame in inches?

8. The table shows lengths in inches of sides in similar triangles NPR and LQS .

NP	LQ	NR
18	30	30

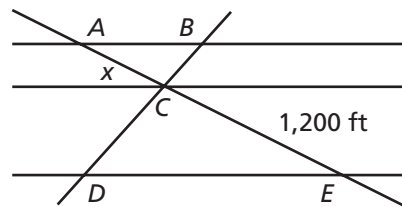
How many inches long is \overline{LS} ?

9. The diagram shows a triangular piece of fabric on a grid. A patternmaker wants to cut a larger piece of fabric similar to the one shown, but 2.5 times as long on each side.



How many inches long is the side of the larger piece of fabric corresponding to \overline{GS} ?

10. This diagram shows how five streets form similar triangles ABC and EDC . $BD = 4(BC)$.



How many feet long is \overline{AC} ?