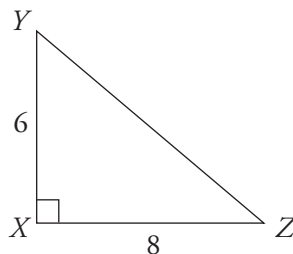
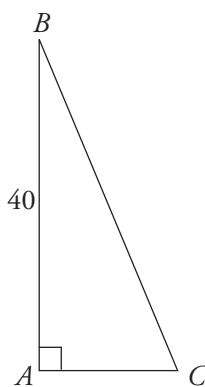


Drill 2

Answers can be found in Part IV.

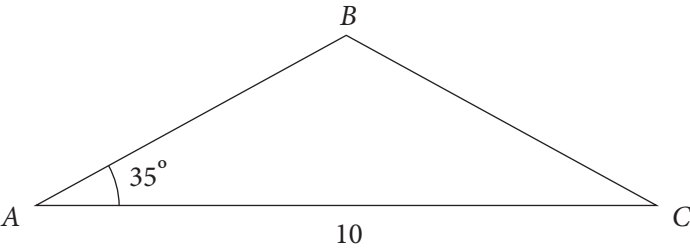


- a. What is the area of triangle XYZ above? _____
- b. What is the length of YZ ? _____
- c. What is the sine of $\angle Z$? _____



- d. If the area of the triangle above is 400, what is the length of AC ? _____
- e. What is the length of BC ? _____
- f. What is the cosine of $\angle C$? _____

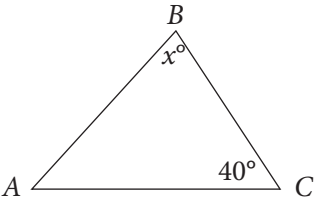
13



In the triangle above, $AB = BC$. Which of the following accurately expresses the perimeter of the triangle?

- A) $10 + 10 \sin 55^\circ$
- B) $10 + 10 \cos 35^\circ$
- C) $10 + \frac{10}{\sin 55^\circ}$
- D) $25 \tan 35^\circ$

14



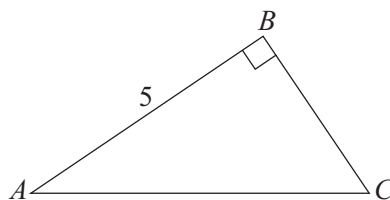
Note: Figure not drawn to scale.

In triangle ABC above, if $AB = BC$, what is the value of x ?
(Disregard the degree symbol when gridding your answer.)

	/	/	
.	.	.	.
	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9



8



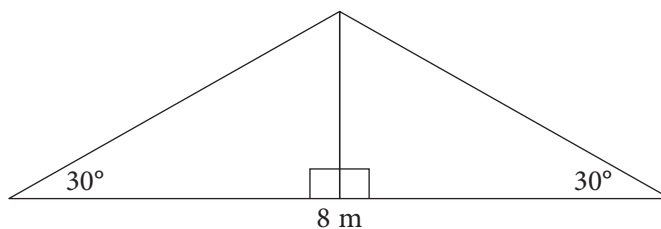
Note: Figure not drawn to scale.

In the figure above, if triangle ABC is isosceles, what is the perimeter of the triangle?

- A) 12.5
- B) $10\sqrt{2}$
- C) $10 + 5\sqrt{2}$
- D) $15\sqrt{2}$



9



The owner of a barn needs to paint the front of the barn's roof. As shown in the figure above, the roof measures 8 m along the bottom, and the sides of the roof meet the bottom at a 30° angle. If one bucket of paint can cover 5 m^2 , what is the minimum number of buckets the owner needs to purchase?

- A) 1
- B) 2
- C) 3
- D) 4

In the figure above, if $AB = 5$, $AC = 13$, and $DE = 24$, what is the value of BD ?

- 

A right triangle is shown with a vertical leg of length 7, a horizontal leg of length x , and a hypotenuse of length a° . A right angle symbol is at the top-left vertex.

	/	/	
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9