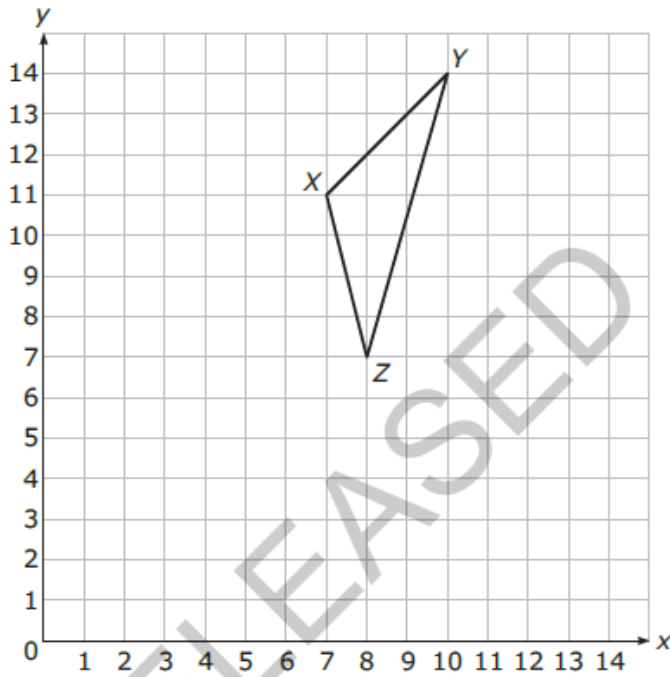




$\triangle XYZ$ will be translated so that the coordinates of X' are $(5, 11)$



What will be the coordinates of Z' ?

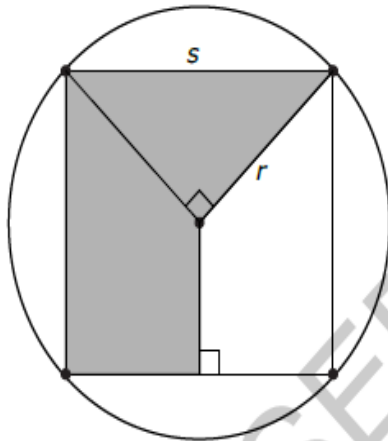
- A $(5, 8)$ C $(7, 6)$
 B $(6, 7)$ D $(8, 5)$

Item Number	Type	Key	Domain
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24



The figure below shows a square inscribed in a circle. The area of the shaded region is 2.5 square units.



What is the *approximate* area of the circle?

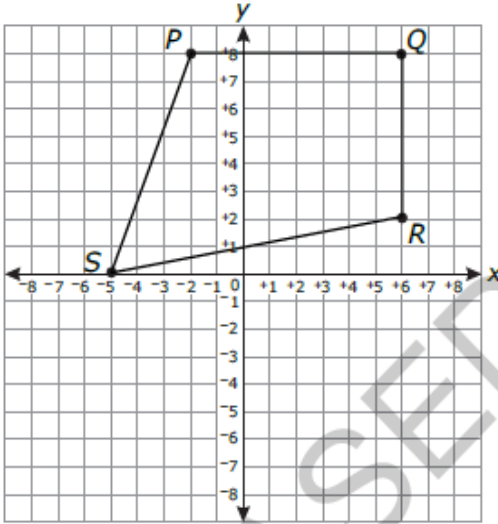
- A 3.1 square units C 6.3 square units
 B 4.7 square units D 7.9 square units

Item Number	Type	Key	Domain
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26



Quadrilateral $PQRS$ is graphed in the coordinate plane.



To the nearest tenth, what is the perimeter of quadrilateral $PQRS$?

- A 33.0 units C 37.6 units
 B 33.7 units D 48.0 units

Item Number	Type	Key	Domain
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27



A cylinder is 20 inches long and has a diameter of 10 inches. What is the *approximate* volume of the cylinder?

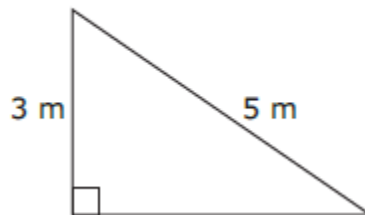
- A 200 cubic inches C 1,570 cubic inches
 B 630 cubic inches D 6,280 cubic inches

Item Number	Type	Key	Domain
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28



What is the area of the triangle shown below?



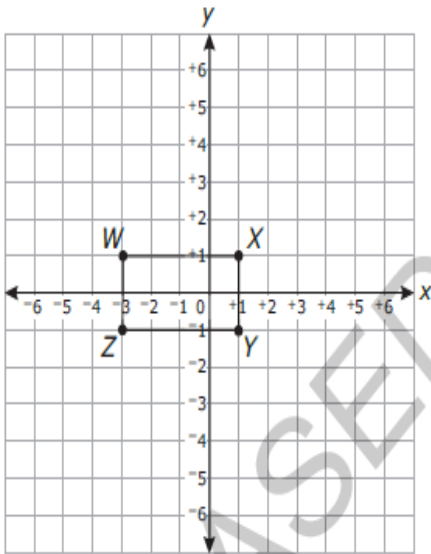
- A 4 square meters C 12 square meters
 B 6 square meters D 15 square meters

Item Number	Type	Key	Domain
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30



Rectangle $WXYZ$ will be dilated by a scale factor of $\frac{1}{2}$, creating rectangle $W'X'Y'Z'$.



What will be the perimeter of rectangle $W'X'Y'Z'$?

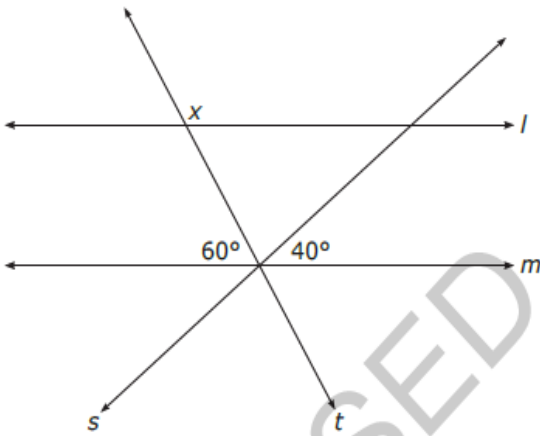
- A 4 units C 12 units
B 6 units D 24 units

Item Number	Type	Key	Domain
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41



Lines l and m are parallel to one another and cut by transversals s and t .



What is the value of x ?

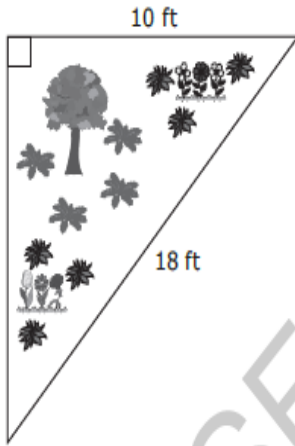
- A 40° C 120°
B 80° D 140°

Item Number	Type	Key	Domain
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42



Molly wants to put a fence around an area. The fence will follow the diagram of the triangle shown below.



About how much fencing does Molly need?

- A 28 ft C 43 ft
 B 38 ft D 49 ft

Item Number	Type	Key	Domain
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43



The points $(-3, -1)$ and $(-3, 5)$ are adjacent vertices of a rectangle. Two of the sides of the rectangle have a length of 8 units. What is the length of a diagonal of the rectangle?

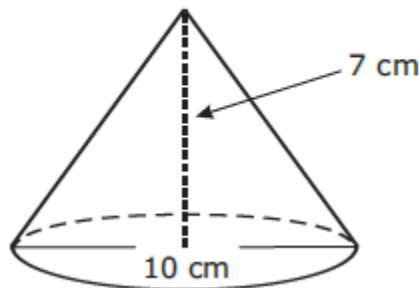
- A 9 units C 12 units
 B 10 units D 14 units

Item Number	Type	Key	Domain
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44



What is the **approximate** volume of the cone below?



- A 70 cm^3 C 549 cm^3
 B 183 cm^3 D 733 cm^3

Item Number	Type	Key	Domain
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45



The measures of the angles of a triangle are 50° , 35° , and 95° . What is the measure of the largest exterior angle of the triangle?

A 85° C 145°

B 130° D 150°

Item Number	Type	Key	Domain
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46
