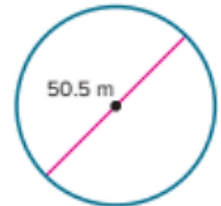


## Reveal Math – Grade 7 term3 – Module 9 Lesson 1 up to 5

### Module 9 Lesson 1

1. The Niagara SkyWheel, which overlooks Niagara Falls, Canada, has a diameter of 50.5 meters. Find the circumference of the Niagara SkyWheel. Use 3.14 for  $\pi$ . rounded to the nearest hundredth if necessary.

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2. Find the circumference of a circle with a radius of 0.9 centimeter. Use 3.14 for  $\pi$ . Write your answer as a decimal rounded to the nearest hundredth.

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3. Find the approximate radius of a circle with a circumference of 7.92 centimeters. Use 3.14 for  $\pi$ . Round to the nearest hundredth.

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4. A helicopter pad has a circumference of  $47\frac{1}{2}$  yards. Find the approximate diameter of the helicopter pad. Use 3.14 for  $\pi$ . Write your answer as a decimal rounded to the nearest hundredth if necessary.

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5. A nickel has a diameter that is 2.16 millimeters longer than the diameter of a penny. If the radius of a penny is 9.525 millimeters, what is the circumference of a nickel? Use 3.14 for  $\pi$ . Round to the nearest tenth.

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Module 9 Lesson 2

6. The circular area covered by a lawn sprinkler has a 24.25-foot diameter. What is the area of the space covered by the sprinkler? Use 3.14 for  $\pi$ . Round to the nearest hundredth if necessary.

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7. Find the area of the circle. Use 3.14 for  $\pi$ . Round to the nearest hundredth if necessary.

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8. What is the area of one side of the penny? Use 3.14 for  $\pi$ . Round to the nearest hundredth if necessary.

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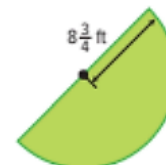


9. Mr. Ling is adding a pond in the shape of a semicircle in his backyard. What is the area of the pond? Use 3.14 for  $\pi$ . Round to the nearest hundredth if necessary.

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10. The exact circumference of a circle is 34 meters. What is the approximate area of the circle? Use 3.14 for  $\pi$ . Round to the nearest hundredth if necessary.

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11. The exact circumference of a circle is  $18\pi$  inches. What is the approximate area of the circle? Use 3.14 for  $\pi$ . Round to the nearest hundredth if necessary.

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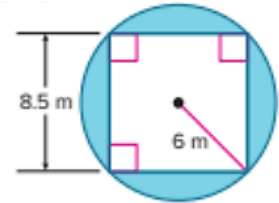
Module 9 Lesson 3

12. Find the area of the shaded region. Use 3.14 for  $\pi$ . Round to the nearest hundredth if necessary.

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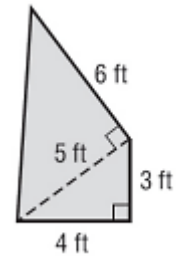


13. Find the area of the figure. If necessary, use 3.14 for  $\pi$  and round to the nearest hundredth.

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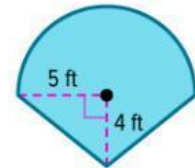


14. Find the area of the figure. If necessary, use 3.14 for  $\pi$  and round to the nearest hundredth.

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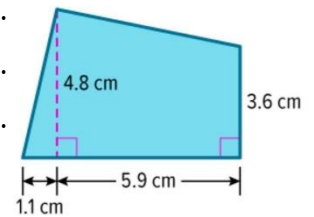


14. Find the area of the figure. If necessary, use 3.14 for  $\pi$  and round to the nearest hundredth.

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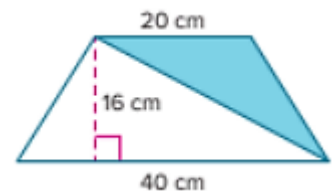


15. Find the area of the shaded region.

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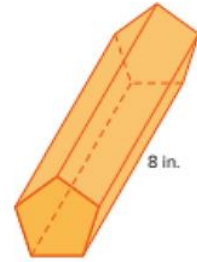
Module 9 Lesson 4

16. The pentagonal prism shown has a volume of about  $124\frac{4}{5}$  cubic inches. What is the area of the base of the prism?

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17. A cereal box is in the shape of a rectangular prism. What is the volume of the cereal box? Express your answer as a decimal rounded to the nearest tenth if necessary. (Example 1)

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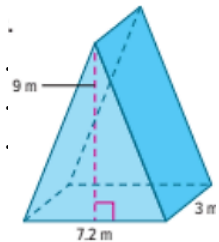


18. Find the volume of the figure. Round to the nearest tenth if necessary.

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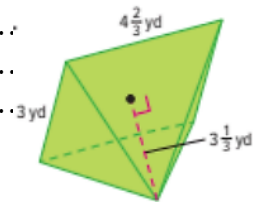


19. Find the volume of the figure. Round to the nearest tenth if necessary.

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20. A triangular prism has a height of 5.9 meters and volume of 86.376 cubic meters. What is the area of the base of the prism?

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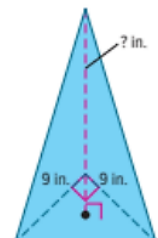
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21. A glass stand to display a doll is in the shape of a right triangular pyramid as shown. The volume of the stand is 202.5 cubic inches. What is the height of the stand?

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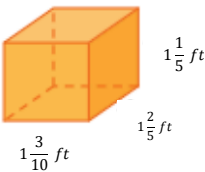
**Module 9 Lesson 5**

22. Find the surface area of the prism. Write your answer as a mixed number in simplest form.

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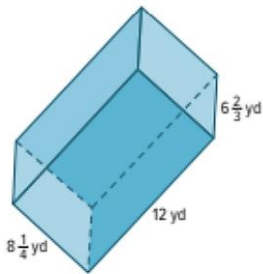


23. Find the surface area of the prism. Round to the nearest tenth if necessary.

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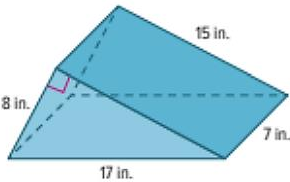


24. What is the surface area of the triangular prism-shaped toy car ramp shown?

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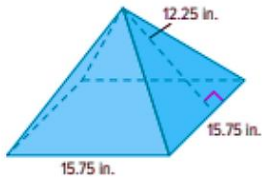


25. Find the surface area of each pyramid. Round to the nearest tenth if necessary.

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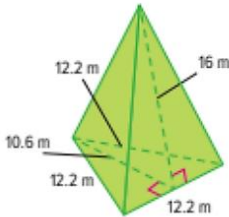


26. Find the surface area of each pyramid. Round to the nearest tenth if necessary.

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27. Oscar is making a play block for his baby sister by gluing fabric over the entire surface of a foam block. Is 65 square inches of fabric enough? If so, how much fabric will remain? If not, how much more fabric will he need?

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