

Chapter 12 Review

Convert. (12.1)

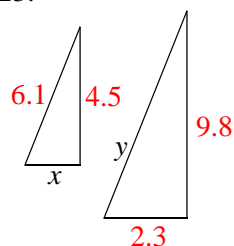
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|-------------------------------|--------------------------------|-------------------------------|
| 1. 260 kilometers to meters | 7. 1500 yards to meters | 13. 32 liters to milliliters |
| 2. 7500 milliliters to liters | 8. 5000 feet to yards | 14. 110 kilometers to miles |
| 3. 7.4 miles to feet | 9. 160 ounces to pounds | 15. 420 inches to feet |
| 4. 12 tons to pounds | 10. 6.75 meters to centimeters | 16. 4.8 yards to inches |
| 5. 0.53 kilograms to grams | 11. 1600 milligrams to grams | 17. 350 millimeters to meters |
| 6. 77 gallons to cups | 12. 64 ounces to cups | 18. 0.4 grams to milligrams |

Solve. (12.1)

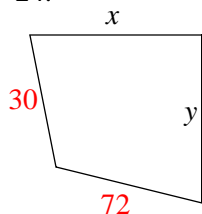
- A horse that weighs 0.52 tons is carrying a jockey weighing 104 pounds. What is the total weight in pounds of man and mount?
- The distance between first base and second in the baseball diamond is 90 feet. If the actual base of the game is a square and measures 18 inches on the side, find the minimum distance (from edge to edge) in feet that a runner must cover to steal a base.
- The yacht race must cover a course that is 15 miles long. If the race sails five times around the course, convert the whole distance of the race to kilometers. Round answer to the nearest tenth.
- After nine seconds, the speed of a falling object is 88.2 meters per second. Convert to miles per hour.

Each pair of figures is similar. Find ALL missing sides. (12.2)

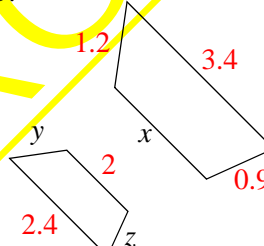
23.



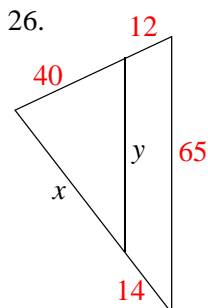
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25.



26.

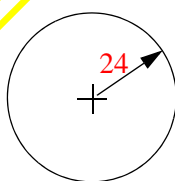


Solve. (12.3)

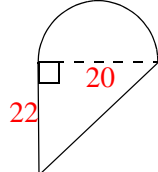
- For a playground, Terry is building a rectangular fenced enclosure that measures 45 feet by 39 feet. How many linear feet of fence does she need to enclose the toys?
- Derrick needs to install baseboards around the floor of his room. If the room measures 600 centimeters by 525 centimeters, how many meters of baseboard must he buy?
- A carpenter needs to glue a strip of wood veneer around a semi-circle. If the radius of the semi-circle is 40 inches, how long is the strip of wood veneer he will install?
- Two similar, rectangular parcels of land must be fenced. If the larger parcel is 250 feet by 350 feet, and the smaller one is 120 feet long, how much fence must be bought for both parcels?
- The perimeter of a barrel needs to be known to fasten wire all around. If the radius of the barrel is 19 inches, how much wire is needed to go around the barrel five times?

Find the perimeter. (12.3)

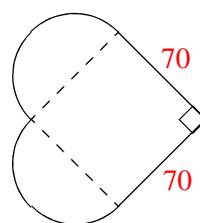
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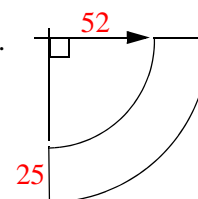
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34.



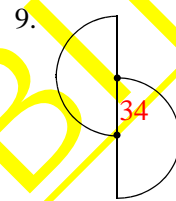
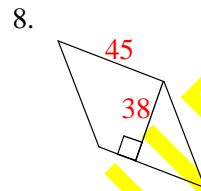
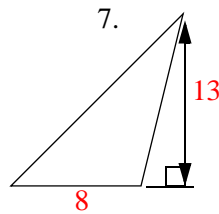
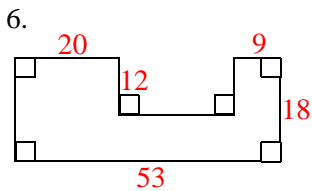
35.



Solve. (12.4)

- How much area is available in a rectangular display case that measures 72 inches by 54 inches.
- The fuel tanks of the City of Key West need paint. If the tanks are cylindrical and 42 feet wide by 25 feet high, how much area needs to be covered in one tank. (The bottom does not need paint.)
- Eric's circular army tent is 13 meters wide. If he wants to cover the floor of the tent with a mat and mat material is sold by the square yard, how many square yards will he need to buy?
- Jessica wants to make a cubic box *without a lid* and paint it inside and out. If the box will hold 1728 cubic centimeters, find the surface area she will paint.
- A contractor is instructed to cut two 3-feet wide, circular holes for ventilation on a 9 feet by 12 feet wall. If he is also instructed to paint the wall, how many square feet of area will the paint job require?

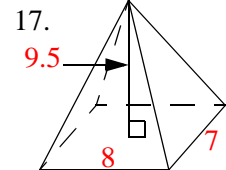
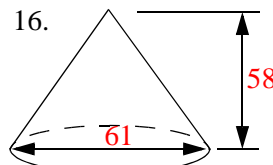
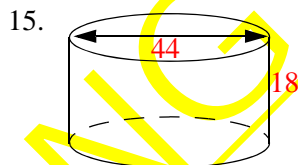
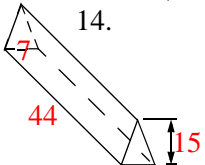
Find the area. (12.4)



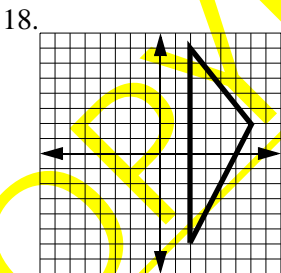
Solve. (12.5)

- A nine-inch sphere is cut in half and each half is placed with the flat surface facing the end of a cylinder. If the cylinder is also 9 inches wide and 45 inches long, find the volume of the composite figure.
- A perfume box is a composite of a cube and a square pyramid. Find the volume of both cube and pyramid if the pyramid is, like the cube, also four inches high.
- A non-stretchable beach ball 15 centimeters wide needs to be filled with air. What volume of air will it take?
- A container-refrigerator measures 7 meters in length and is 2.8 meters high. If the volume of the container is 38 cubic meters, how wide is the container?

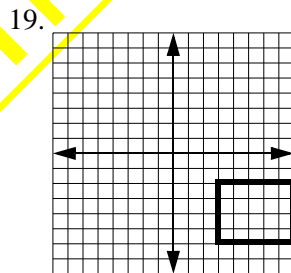
Find volume. (12.5)



Find the coordinates of the reflection. (12.6)

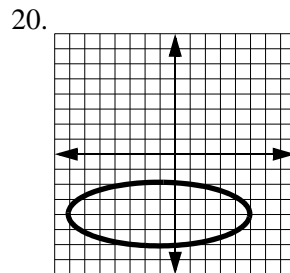


With respect to the y-axis.

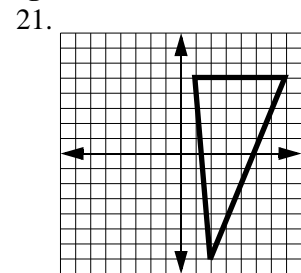


With respect to the x-axis.

Make translations according to instructions.



Two units to the right and six units up.



Six units to the left and one unit down.

Find the number of lines of symmetry. (12.6)

