

Geometry Workbook

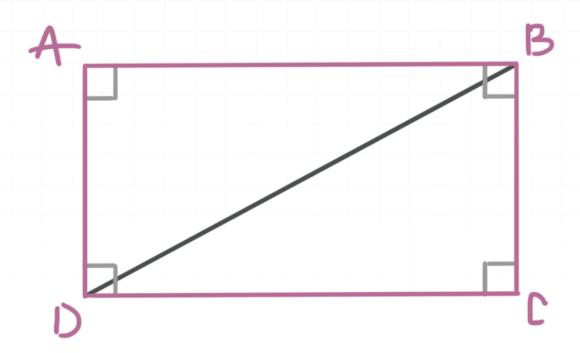
Area and perimeter



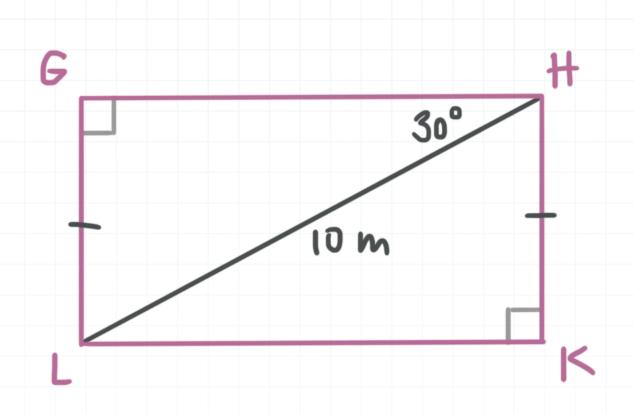
AREA OF A RECTANGLE

■ 1. The base of a rectangle is 8 feet. Find its height if the area of the rectangle is 80 ft².

■ 2. In rectangle ABCD, BD = 13 and AB = 12. Find the area of this rectangle.



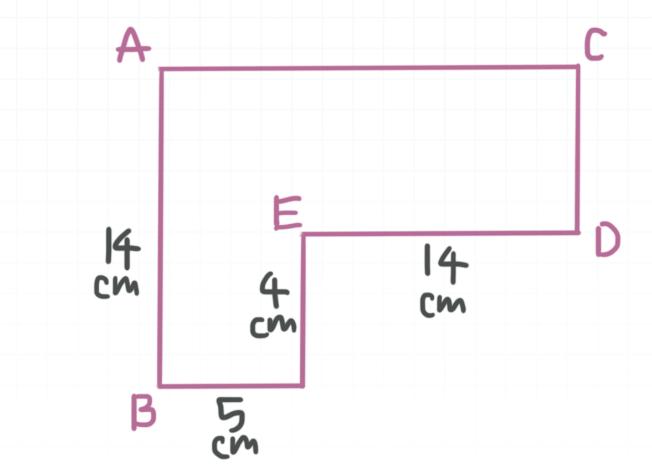
■ 3. In rectangle GHKL, LH = 10 and $m \angle GHL = 30$. Find the exact area of the rectangle.



■ 4. The area of a small square flower garden is 49 ft^2 . Suppose we wish to make the garden bigger by adding 6 feet to one of the sides. How much more square footage is available in this new rectangular garden?

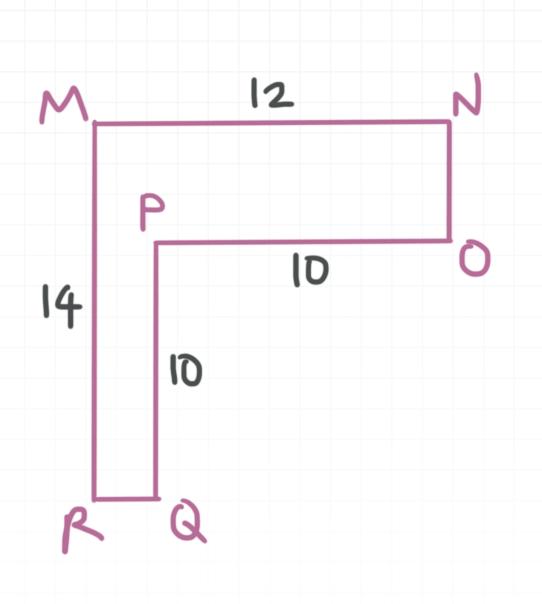
AREA OF A RECTANGLE USING SUMS AND DIFFERENCES

■ 1. Find the area of the figure.

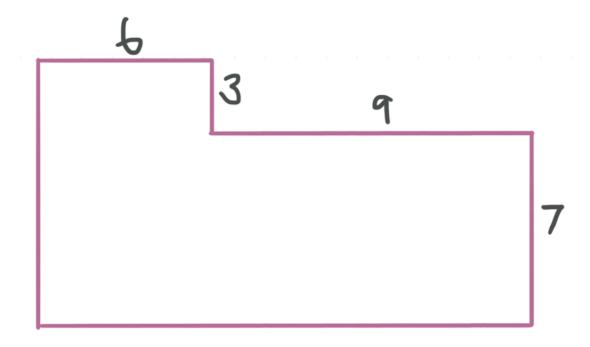


■ 2. Find the area of the figure.



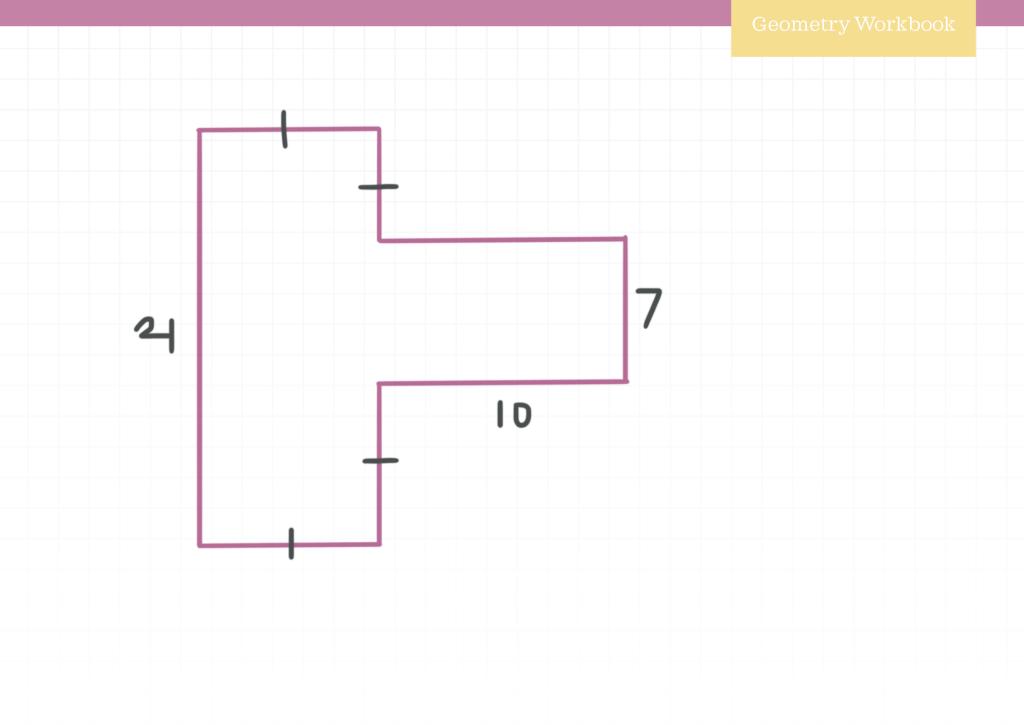


 \blacksquare 3. Find the area of the figure.



■ 4. Find the area of the figure.





PERIMETER OF A RECTANGLE

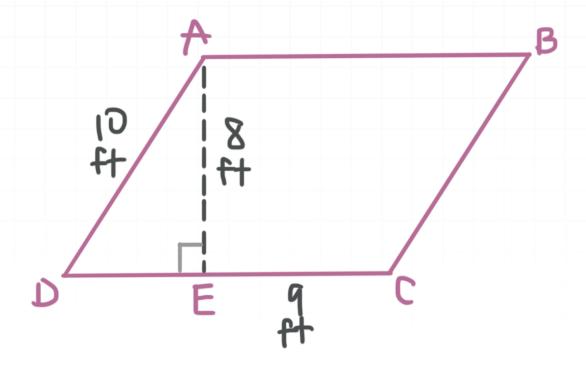
- 1. A rectangle has a base of 10 meters. The height is 4 meters greater than the base. Find the perimeter of this rectangle.
- \blacksquare 2. The area of a rectangle is 40 ft^2 . Find the perimeter of this rectangle if the length of the rectangle is 3 feet longer than the width.
- 3. Find the perimeter of a rectangle with vertices at A(-3,0), B(0,4), C(4,1), and D(1,-3).
- 4. Find the value of x if the base of the rectangle has length x + 4, the height of the rectangle is x, and the perimeter of a rectangle is x0 units.



AREA OF A PARALLELOGRAM

■ 1. Find the area of a parallelogram with b=14 yards and h=10 yards.

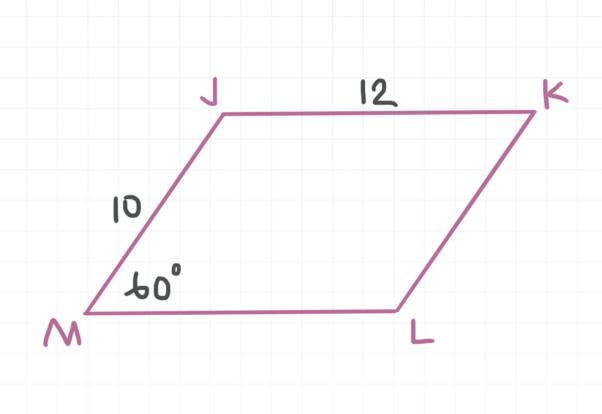
■ 2. Find the area of the parallelogram.



■ 3. Find the area of parallelogram JKLM, if J(0,0), K(1,3), L(-5,3), and M(-6,0).

■ 4. A parallelogram has a base that is 3 feet longer than it is tall. The area of the parallelogram is 88 square feet. Find the height of the parallelogram.

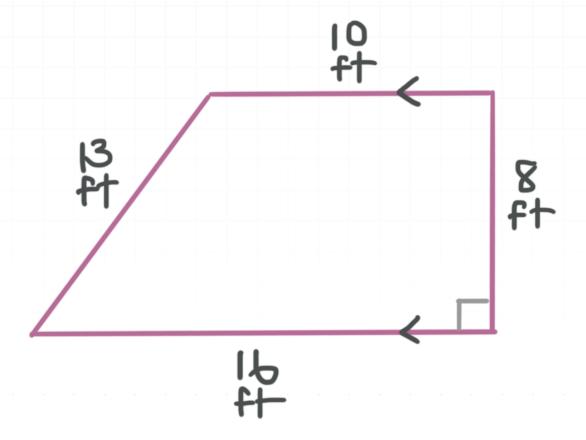
■ 5. Find the exact area of the parallelogram.



AREA OF A TRAPEZOID

■ 1. Find the area of a trapezoid with base lengths 16 and 18, and height 10.

■ 2. Find the area of the trapezoid.

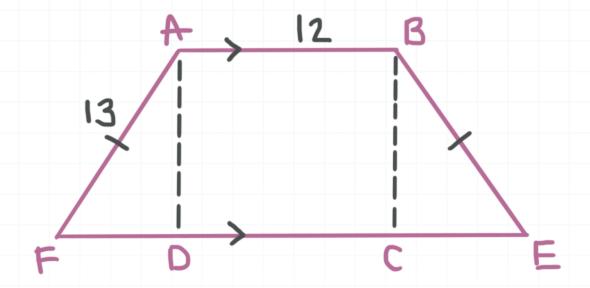


■ 3. Find the exact area of the trapezoid that has congruent 2-meter bases and a height of 4 meters.

■ 4. The area of a trapezoid is 60 m^2 . One of the bases has a measure of 7 m and the height of the trapezoid is 10 m. Find the length of the other base.



 \blacksquare 5. Find the area of trapezoid *ABEF*, if *ABCD* is a square.

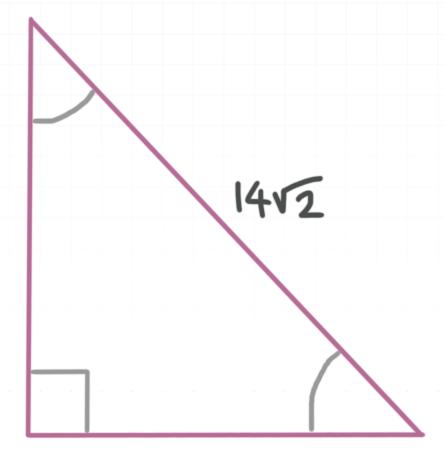




AREA OF A TRIANGLE

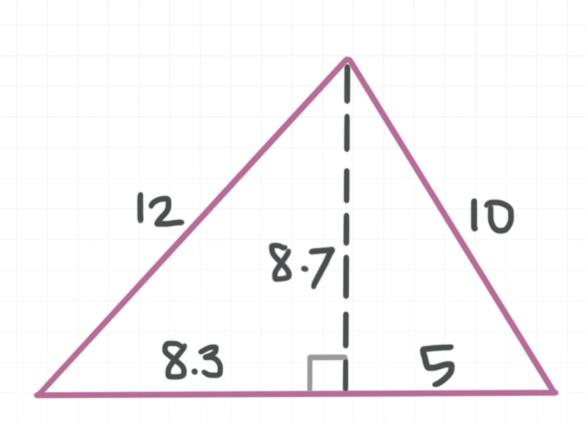
■ 1. Find the area of a triangle that has base length 16 and height 14.

■ 2. Find the area of the triangle.

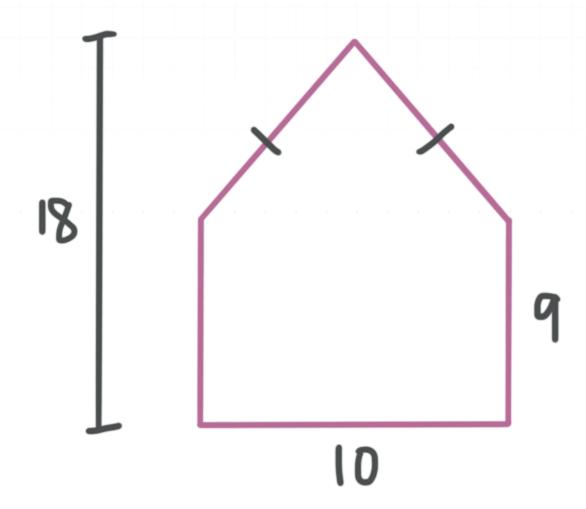


■ 3. Find the area of the triangle.



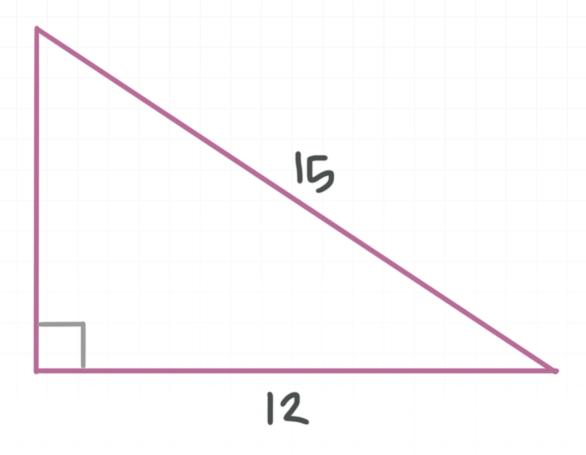


■ 4. Find the area of the figure below.

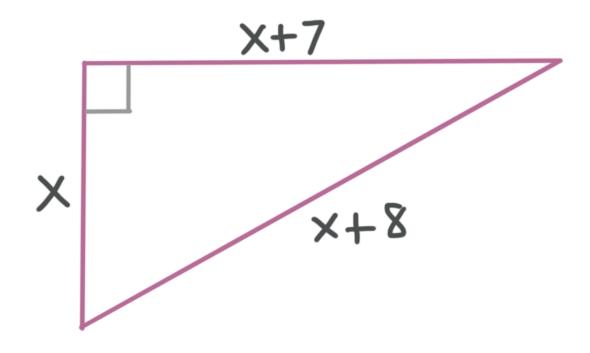


PERIMETER OF A TRIANGLE

■ 1. Find the perimeter of the triangle.

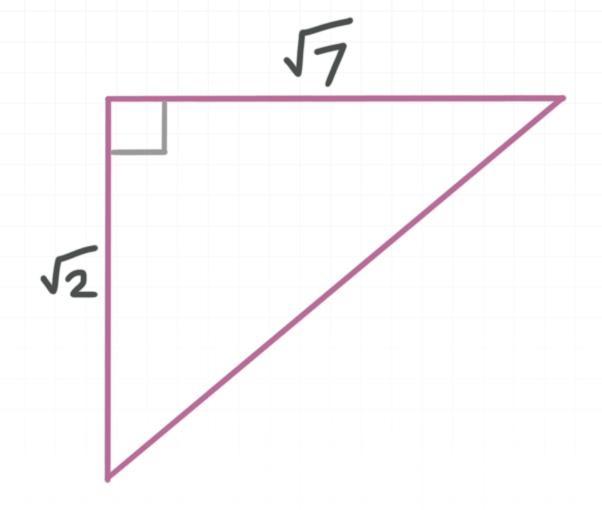


■ 2. Find the perimeter of the triangle.





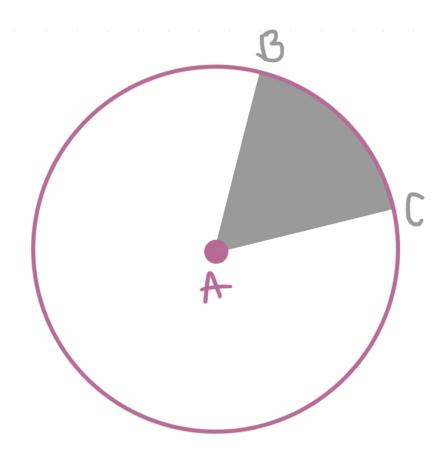
■ 3. Find the exact perimeter of the triangle.



■ 4. Find the perimeter of a right, isosceles triangle, to the nearest hundredth, in which one of the legs measures 5 inches.

AREA OF A CIRCLE

- 1. Find the area of a circle to the nearest hundredth with a diameter of 44 inches.
- \blacksquare 2. The area of a circle is 300 cm^2 . Find the length of the radius to the nearest tenth of a centimeter.
- \blacksquare 3. Find the exact area of a circle with a circumference of 18π .
- 4. Find the area of the shaded region to the nearest tenth if $m \angle BAC = 60^{\circ}$ and AC = 16 feet.

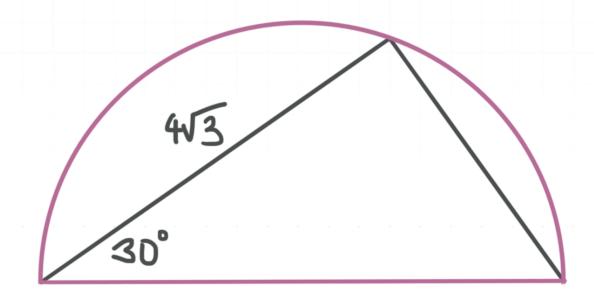


CIRCUMFERENCE OF A CIRCLE

■ 1. To the nearest hundredth, find the circumference of a circle that has a radius of 14 feet.

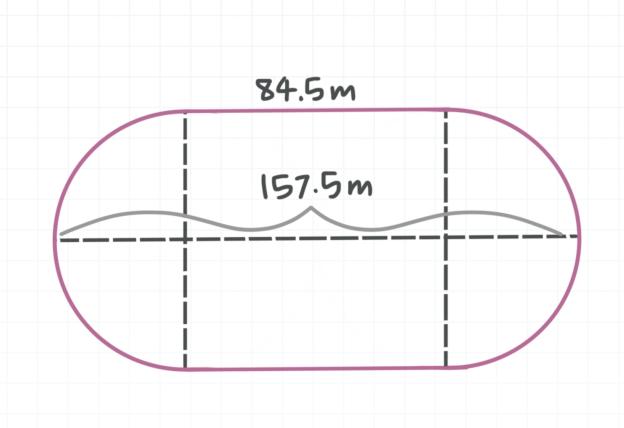
■ 2. Find the area of a circle with a circumference of 400 ft.

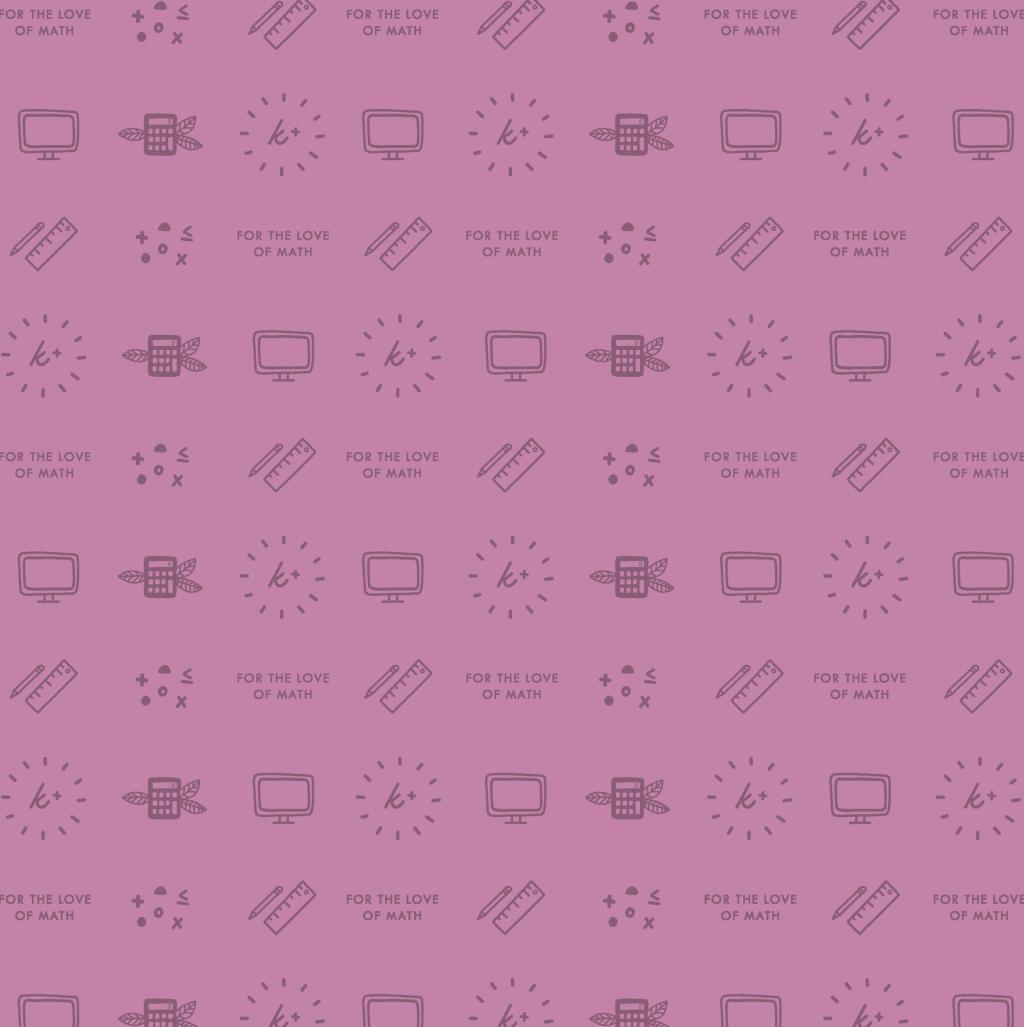
■ 3. Find the exact circumference of the semicircle.



■ 4. To the nearest tenth, find the distance around the following track.







W W W . K R I S I A K I N G M A I H . C O M