



Geometry Workbook

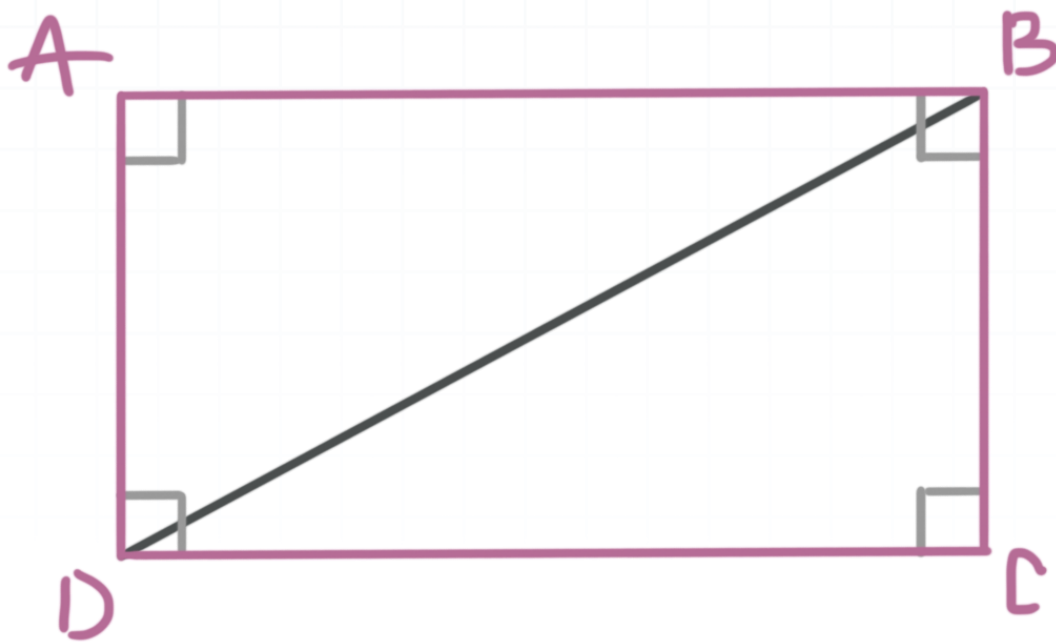
Area and perimeter

krista king
MATH

AREA OF A RECTANGLE

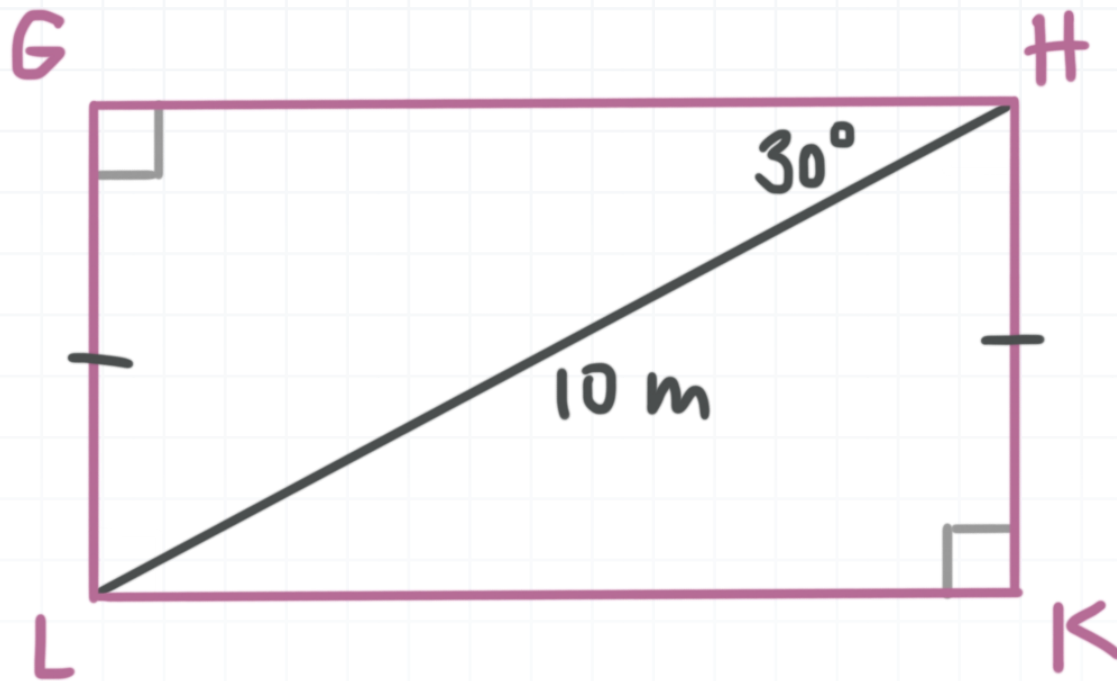
■ 1. The base of a rectangle is 8 feet. Find its height if the area of the rectangle is 80 ft^2 .

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



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

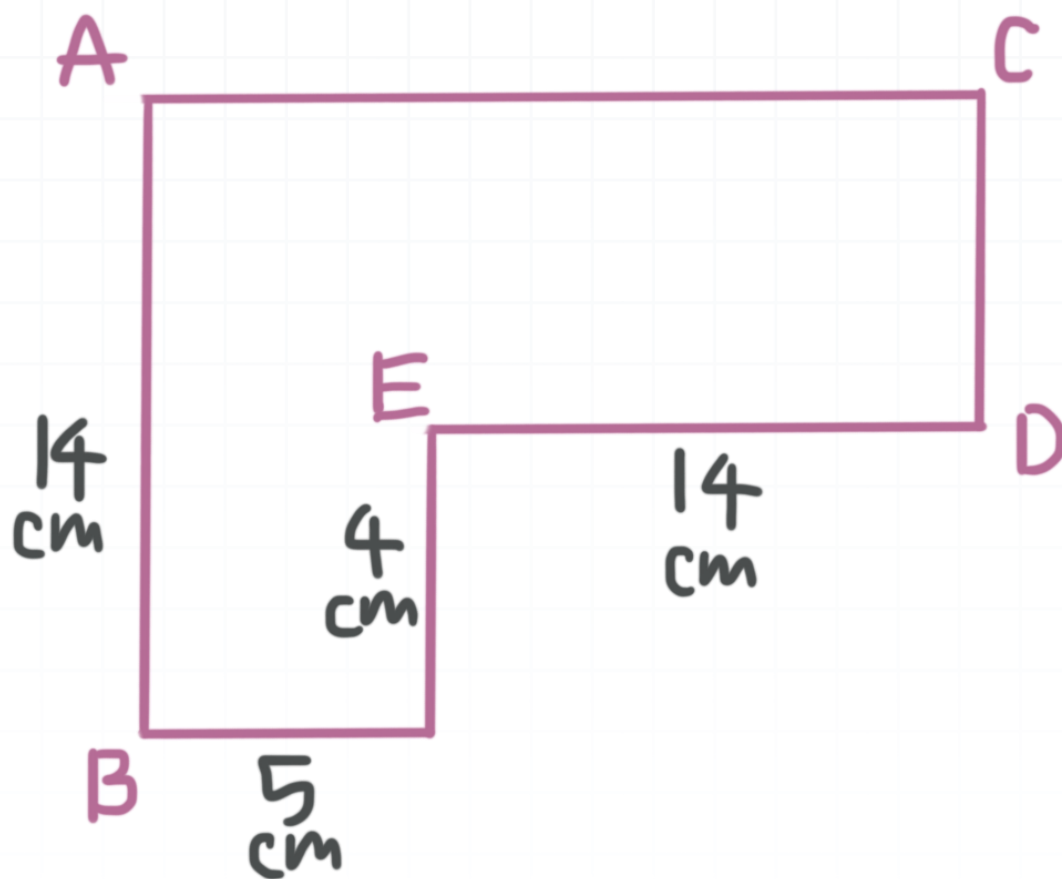




- 4. The area of a small square flower garden is 49 ft^2 . Suppose we wish to make the garden bigger by adding 6 feet to one of the sides. How much more square footage is available in this new rectangular garden?

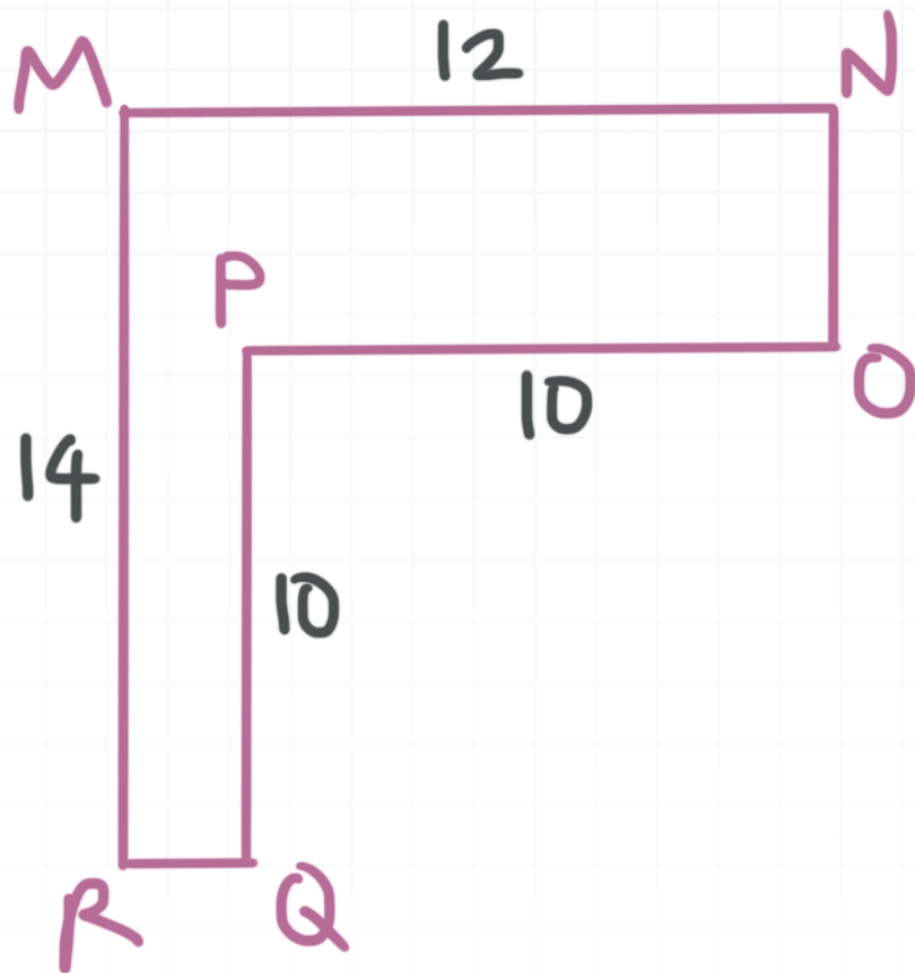
AREA OF A RECTANGLE USING SUMS AND DIFFERENCES

- 1. Find the area of the figure.

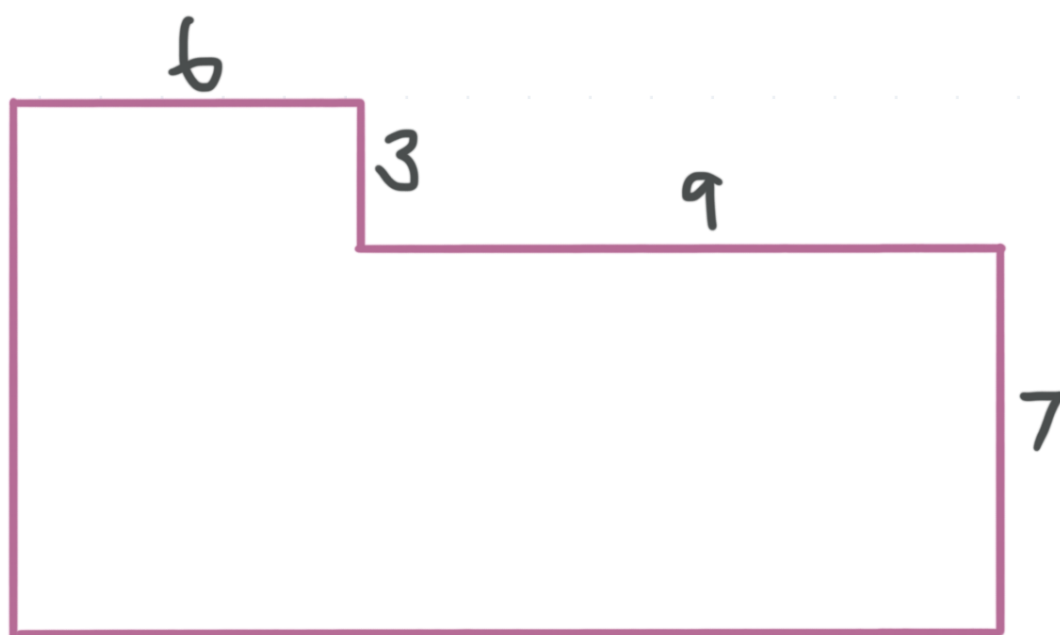


- 2. Find the area of the figure.



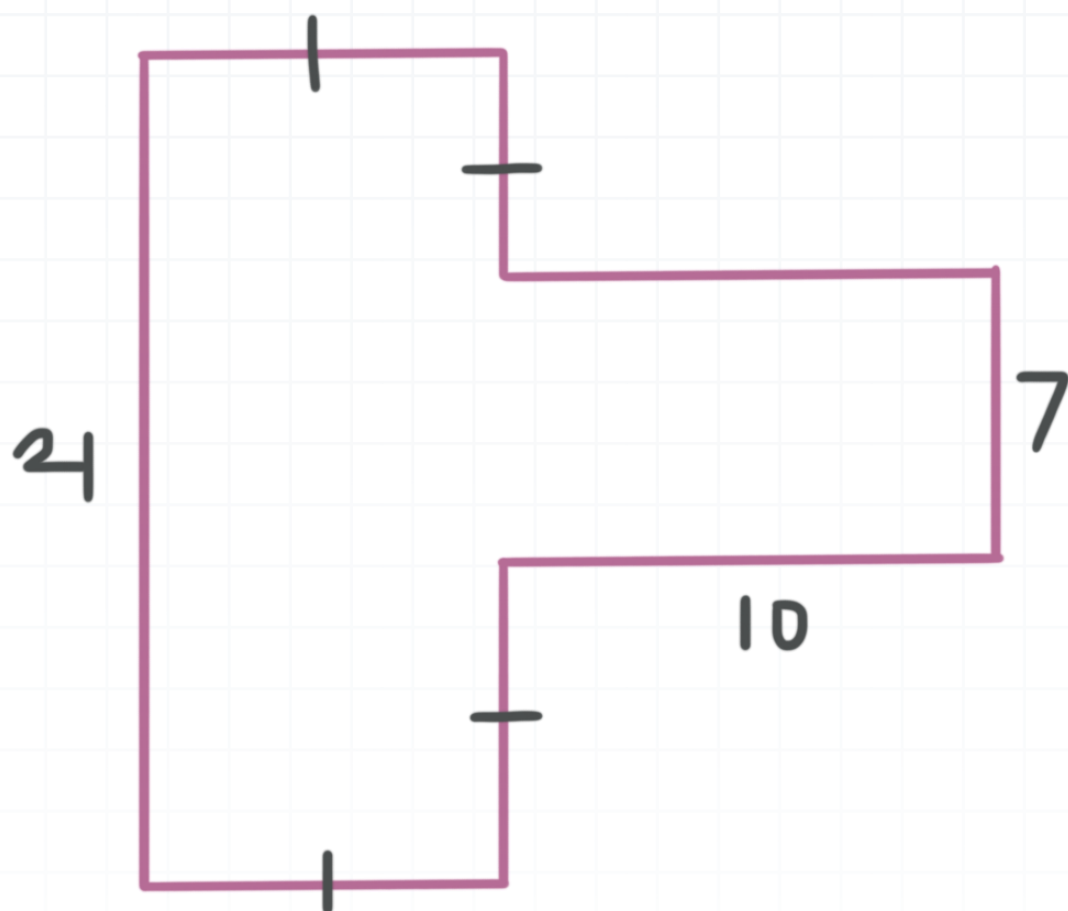


■ 3. Find the area of the figure.



■ 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.

- 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.

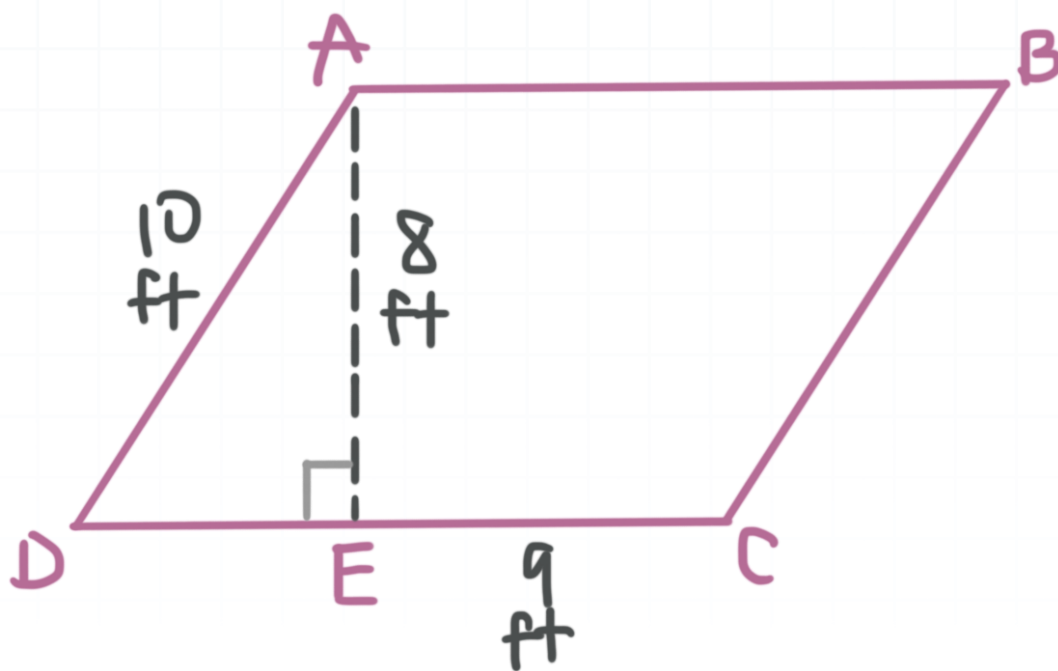
- 3. Find the perimeter of a rectangle with vertices at $A(-3,0)$, $B(0,4)$, $C(4,1)$, and $D(1, -3)$.

- 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 20 units.



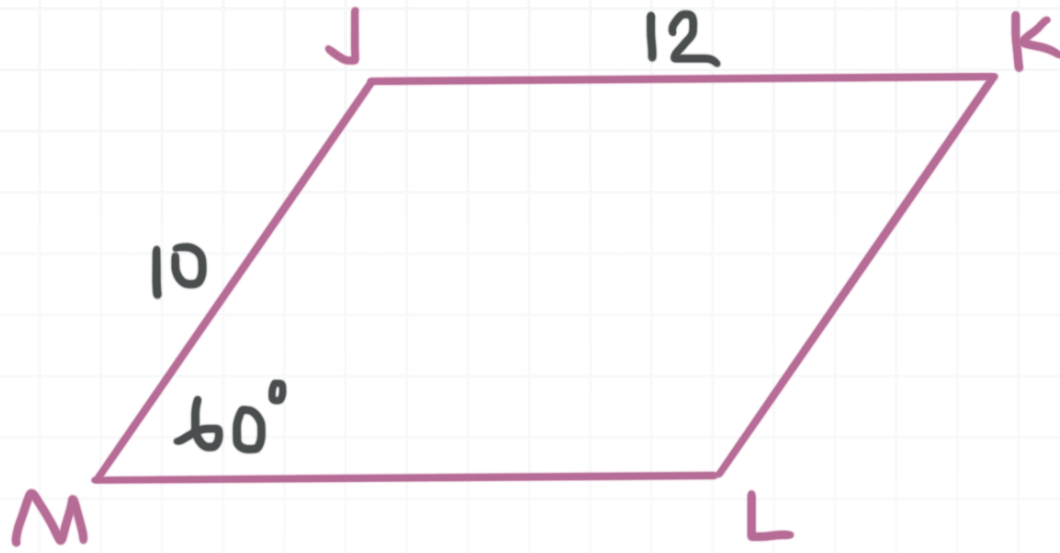
AREA OF A PARALLELOGRAM

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



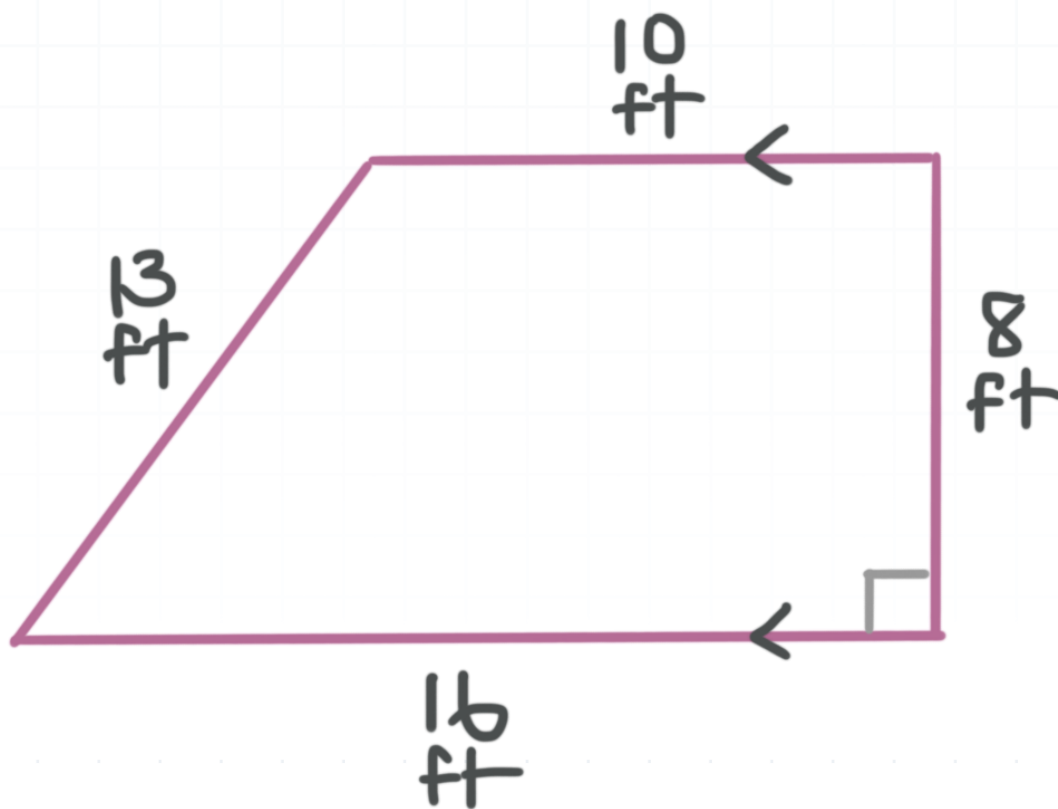
- 3. Find the area of parallelogram $JKLM$, if $J(0,0)$, $K(1,3)$, $L(-5,3)$, and $M(-6,0)$.
- 4. A parallelogram has a base that is 3 feet longer than it is tall. The area of the parallelogram is 88 square feet. Find the height of the parallelogram.
- 5. Find the exact area of the parallelogram.





AREA OF A TRAPEZOID

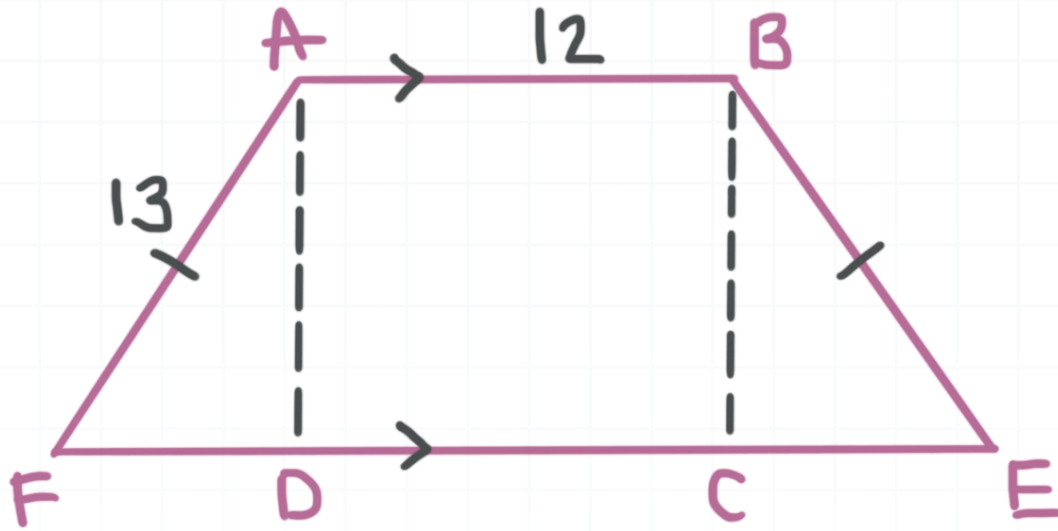
- 1. Find the area of a trapezoid with base lengths 16 and 18, and height 10.
- 2. Find the area of the trapezoid.



- 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.

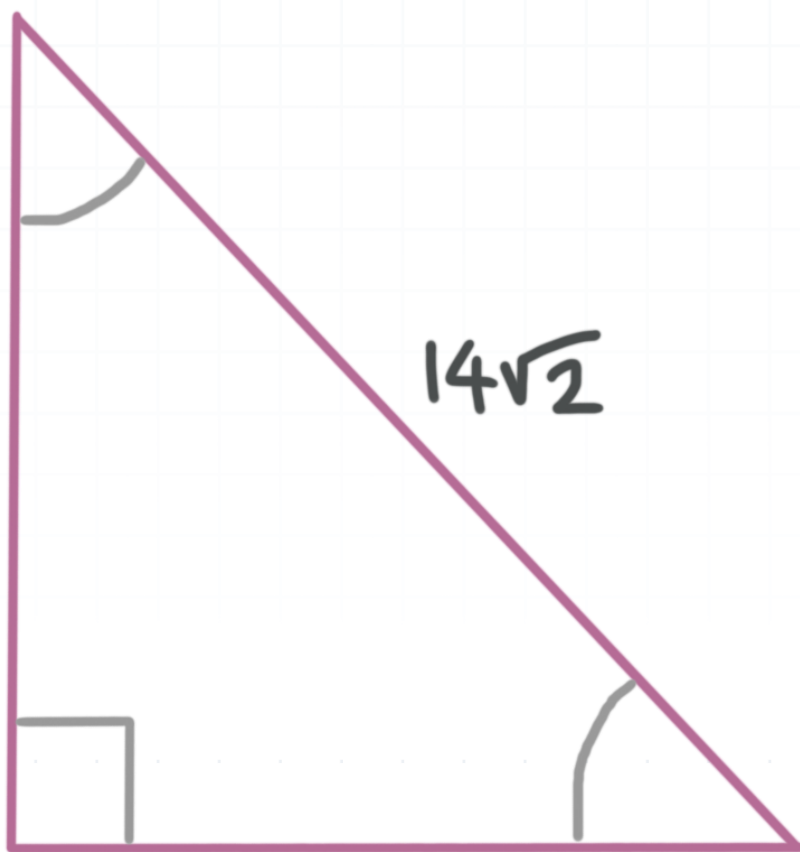


- 5. Find the area of trapezoid $ABEF$, if $ABCD$ is a square.



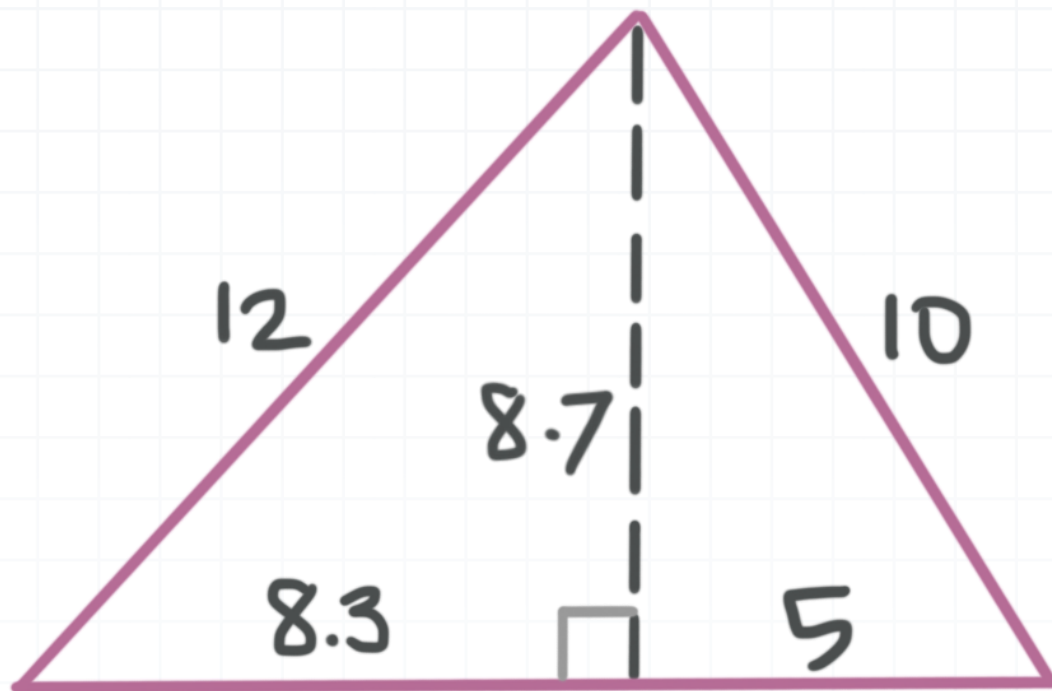
AREA OF A TRIANGLE

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

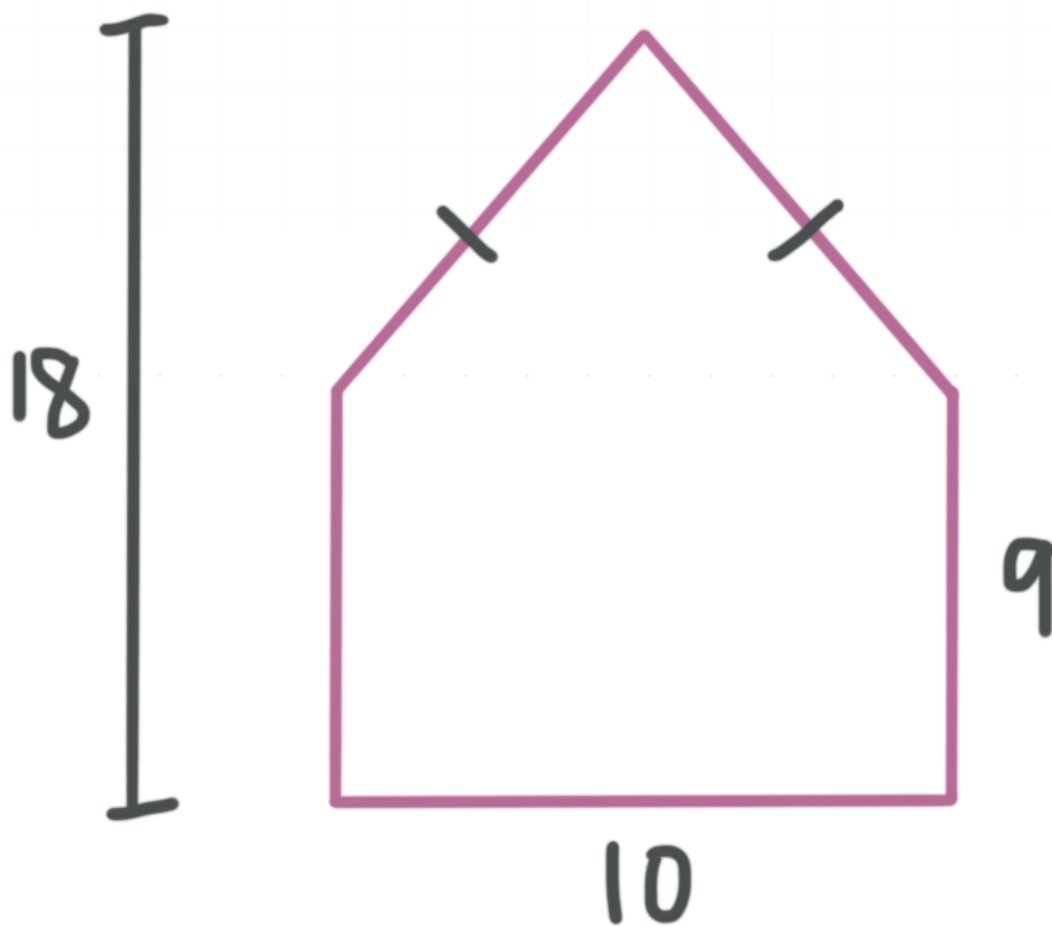


- 3. Find the area of the triangle.



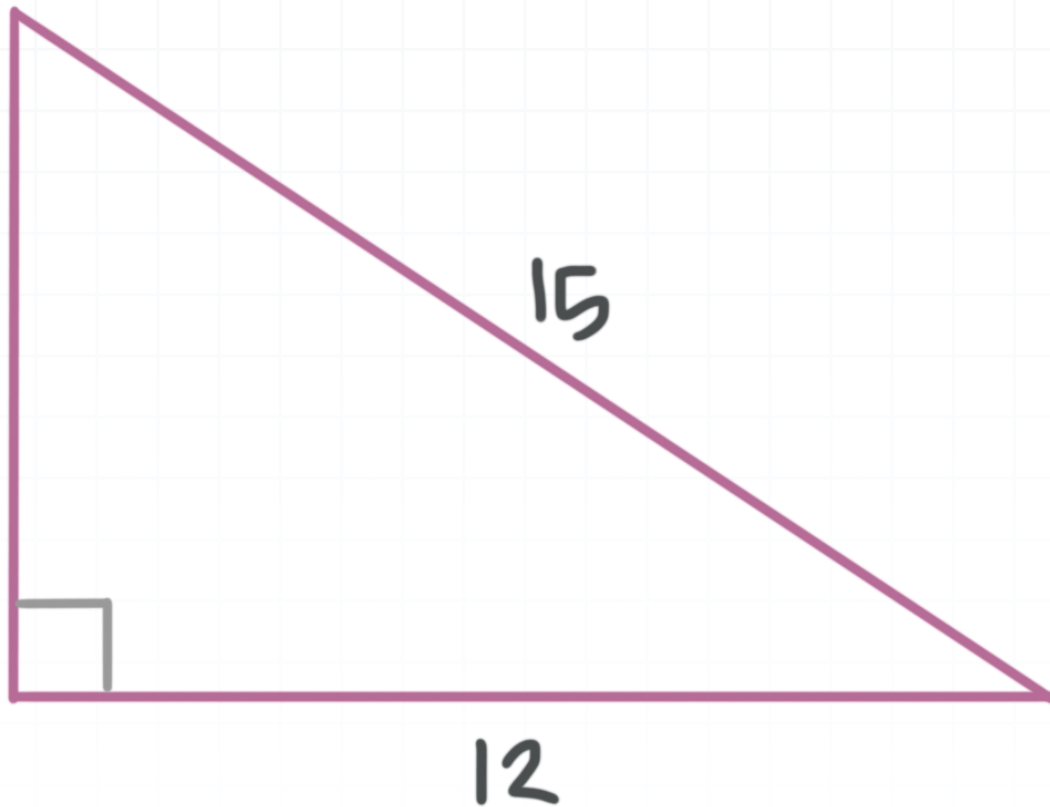


■ 4. Find the area of the figure below.

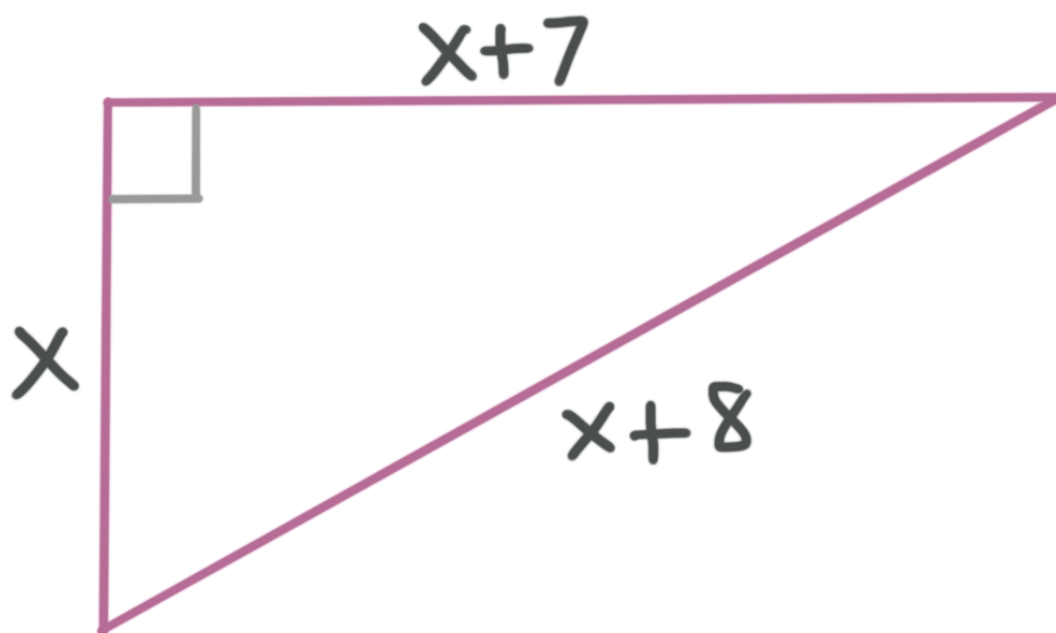


PERIMETER OF A TRIANGLE

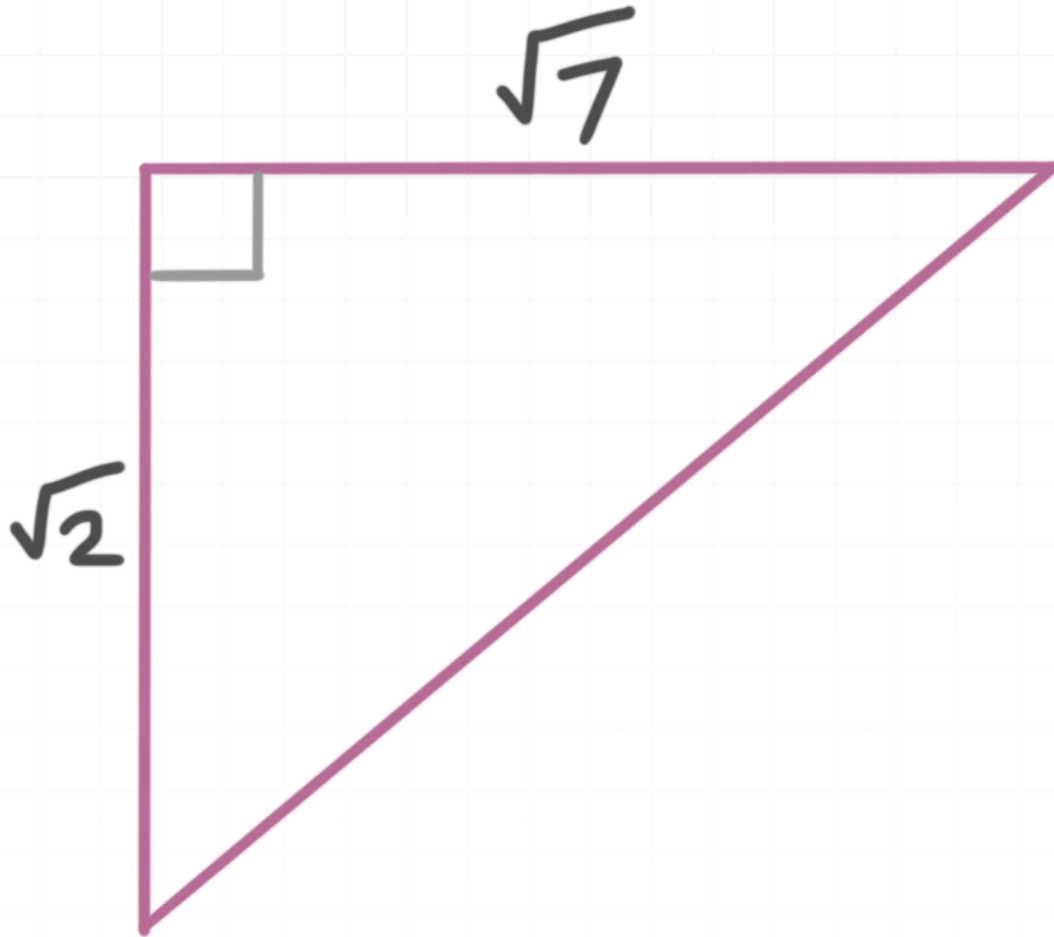
- 1. Find the perimeter of the triangle.



- 2. Find the perimeter of the triangle.



- 3. Find the exact perimeter of the triangle.

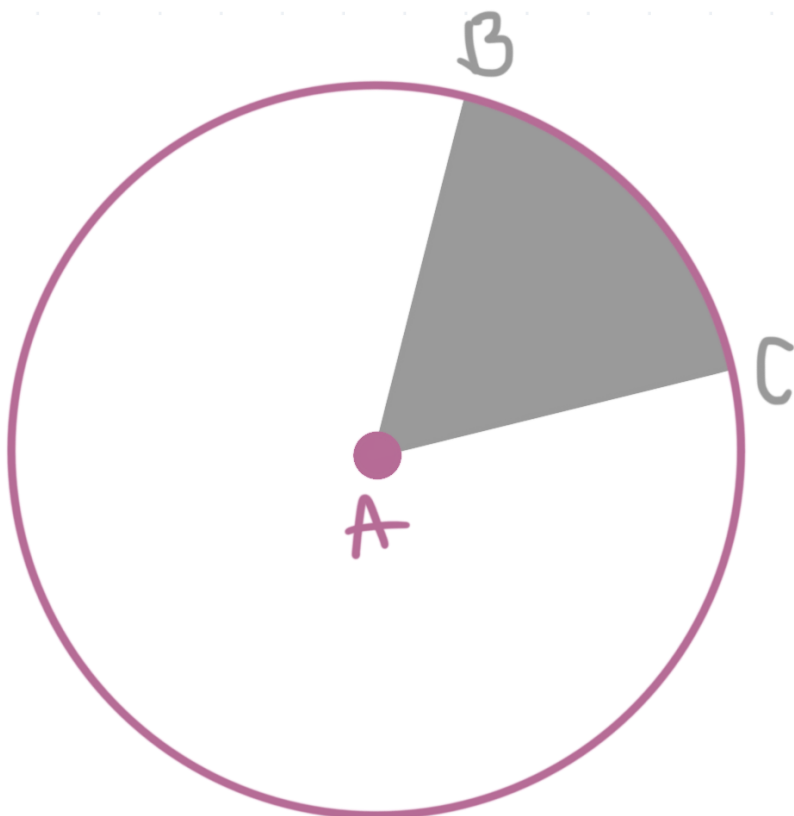


- 4. Find the perimeter of a right, isosceles triangle, to the nearest hundredth, in which one of the legs measures 5 inches.



AREA OF A CIRCLE

- 1. Find the area of a circle to the nearest hundredth with a diameter of 44 inches.
- 2. The area of a circle is 300 cm^2 . Find the length of the radius to the nearest tenth of a centimeter.
- 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. To the nearest tenth, find the distance around the following track.

