





Quadrilateral Family Tree

Kite – no parallel sides Parallelogram – 2 sets of parallel sides Trapezoid – 1 set of parallel sides



AREA VS. PERIMETER

• <u>https://youtu.be/rSVMrPu0_U</u>

AREA FORMULA FOR SQUARES AND RECTANGLES

LEARNING TO WRITE THE AREA FORMULA PROPERLY WILL ALLOW YOU TO USE ALGEBRA TO ALSO FIND MISSING SIDES OF RECTANGLES WHEN GIVEN THE AREA.



AREA OF A RECTANGLE

ANOTHER COMMON WAY OF FINDING AREA OF A RECTANGLE IS USING A=BH

I LIKE THIS ONE BECAUSE IT ALSO WORKS FOR RHOMBUS AND PARALLELOGRAMS

(AS LONG AS YOU LEARN HOW TO MEASURE BASE AND HEIGHT)

Area of Rectangle

The area of a Rectangle equals the base times the height.





WHITE BOARD MUST WRITE FORMULA

- FIND THE AREA OF A SQUARE WITH SIDE LENGTH OF 6CM.
- FIND THE AREA OF A RECTANGLE WITH A TOP OF 8 INCHES AND A SIDE OF 4 INCHES.

• FIND THE LENGTH OF A RECTANGLE WHEN THE BASE HEIGHT IS 8 FT AND THE AREA IS 72 FEET.

PERIMETER

PERIMETER CAN BE FOUND BY ADDING ALL OF THE SIDES TOGETHER.

BUT IT ALSO HELPS TO KNOW HOW TO WRITE IT AS A FORMULA



Core Lesson

AREA VS PERIMETER

• <u>https://youtu.be/nLY2bzRfQyo</u>

Finding the area of a Parallelogram

You find the area of a parallelogram using the same formula that you can use for a rectangle. (not the length times width formula)

A=BH

HINT: remember that the height of a parallelogram is measured from the base to the opposite side at a 90 degree angle. It is not one of the sides.



Video

• <u>https://youtu.be/hm17lVaor0Q</u>

FINDING THE AREA OF A TRIANGLE

TO FIND THE AREA OF A TRIANGLE TAKE ½ OF THE BASE TIMES THE HEIGHT

A=1/2 (B x H)

Or in other words

 $A = (B \times H) / 2$



Videos

• <u>https://youtu.be/rRTXKQpblEc</u>

AREA OF A TRAPEZOID

Trapezoids have 2 bases. (sometimes people will call 1 of the bases A and the other B).

You are finding the average of the 2 bases by multiplying it by ¹/₂.

Remember: multiplying by ¹/₂ is the same as dividing something by 2.

Area of a Trapezoid





AREA OF A TRAPEZOID

- <u>https://youtu.be/ludxEuznIRs</u>
- <u>https://youtu.be/9hISqaDb6XE</u>

FINDING AREA OF COMPOSITE SHAPES

- https://youtu.be/JTg8gyQ37pM
- <u>https://youtu.be/loAA3TCNAvU</u>
- <u>https://youtu.be/Qx4c2xrmVO0</u>