
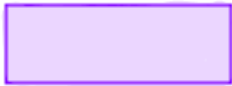


Perimeter & Area (2-2)

<i>perimeter</i>	Decode <i>per · i · meter</i>
Definition <i>the distance around an object</i>	Example 

<i>area</i>	Decode <i>a · r · e · a</i>
Definition <i>the space a 2-D object takes up</i>	Example 

Determine if area or perimeter will help you decide how much of the item to buy.

fabric for a table cloth that is 24 in. by 24 in.

perimeter

area

string to mark the outside of a football field

perimeter

area

fencing to put around a garden

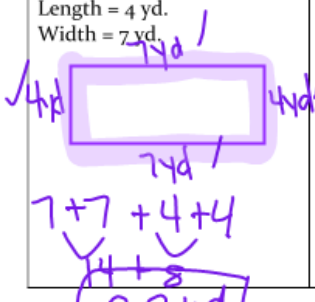
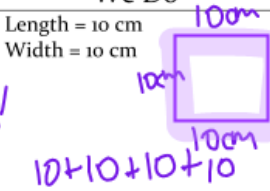
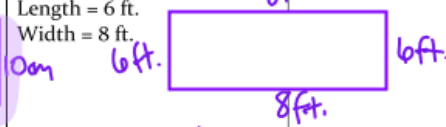
perimeter

area

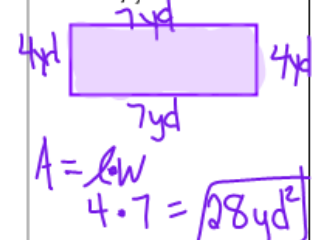
$$2 \cdot 8 + 2 \cdot 6$$

$$16 + 12 = 28 \text{ ft}$$

Example 1: Find the perimeter.

I Do	We Do	You Do
Length = 4 yd. Width = 7 yd.  $7 + 7 + 4 + 4$ $14 + 8$ 22 yd	Length = 10 cm Width = 10 cm  $10 + 10 + 10 + 10$ 40 cm $4 \cdot 10 = 40$	Length = 6 ft. Width = 8 ft.  $8 + 8 + 6 + 6$ $16 + 12$ 28 ft

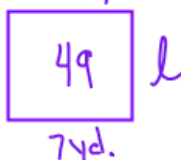
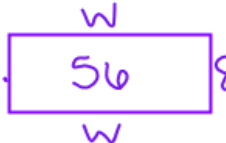
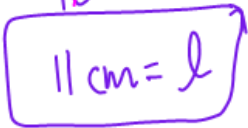
Example 2: Find the area.

I Do	We Do	You Do
Length = 4 yd. Width = 7 yd.  $A = l \cdot w$ $4 \cdot 7 = 28 \text{ yd}^2$	Length = 10 cm Width = 10 cm $A = l \cdot w$ $= 10 \cdot 10$ $= 100 \text{ cm}^2$	Length = 6 ft. Width = 8 ft. $A = l \cdot w$ $= 6 \cdot 8$ $= 48 \text{ ft}^2$

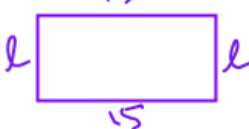


~~**Create your own!**~~

~~Write a problem where you must convert scientific notation to standard notation. Then, trade with your table partner and solve each other's. Make sure to check your partner's final answer.~~

Example 4: Finding an unknown dimension.

I Do	We Do	You Do
Area = 49 square yds. Width = 7 yd. length = 7 yd.  $A = l \cdot w$ $49 = l \cdot 7$	Area = 56 square ins. Length = 8 in.  $A = l \cdot w$ $56 = 8 \cdot w$	Area = 110 square cm Width = 10 cm $A = l \cdot w$ $110 = l \cdot 10$ 

$7 \text{ in} = w$

I Do	We Do	You Do
Perimeter = 40 yds. Width = 15 yd.  $P = l + l + w + w$ $40 = l + l + 15 + 15$ $40 = 2l + 30$	Perimeter = 56 yds. Length = 20 yd.  $56 - 40 = 16$ $w = 8 \text{ yd}$	Area = 62 cm Width = 21 cm  $62 - 42 = 20$ $\frac{20}{2} = 10$

$10 = 2l$
 $\frac{10}{2} = l$
 $5 \text{ yd.} = l$

$l = 10 \text{ cm}$