8.2

Perimeters of Composite Figures

DO NOW

1. What is the relationship between the radius and the diameter of a circle?

2. Which phrase does not belong with the other three? Why?

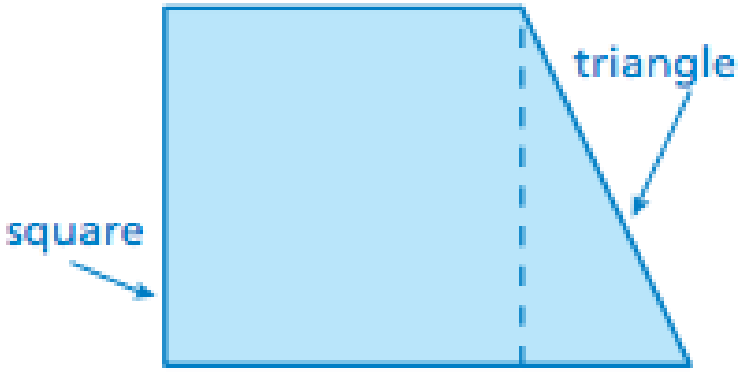
π times the diameter	the distance around a circle
π times twice the radius	the distance from the center to any point on the circle

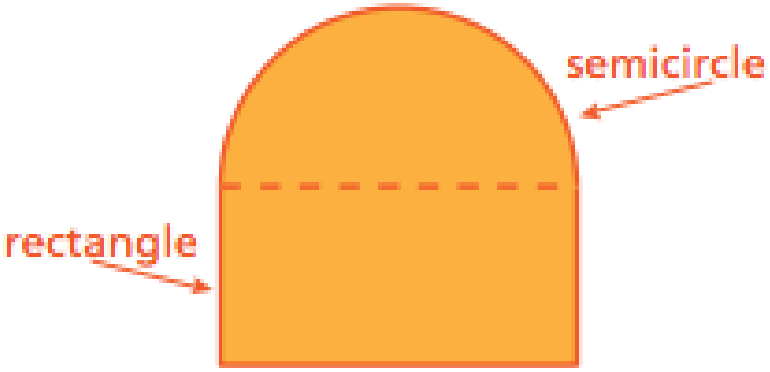
COMPOSITE FIGURES

Composite figures are made up of _____,

_____, _____, _____, and

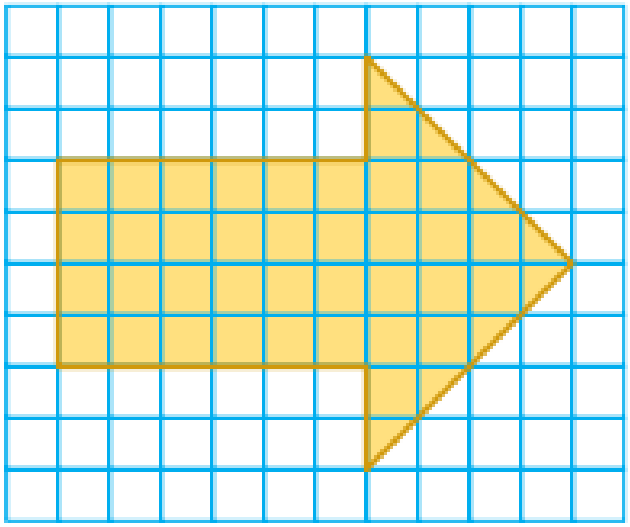
other two-dimensional figures.





Estimating a Perimeter Using Grid Paper

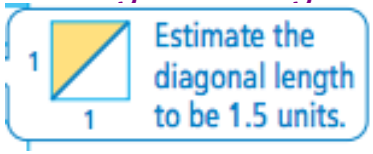
Estimate the perimeter of the arrow.



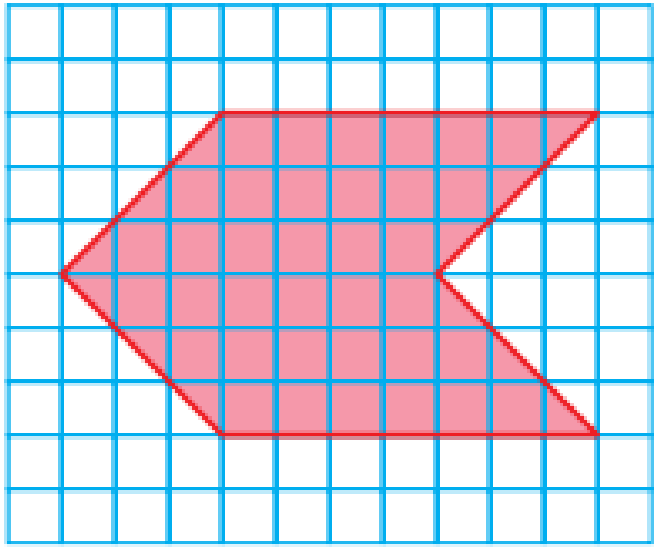
Count the number of grid square lengths around the arrow. There are ____

Count the number of grid square lengths around the arrow. There are ____

Estimate the diagonal lengths to be 1.5 units.



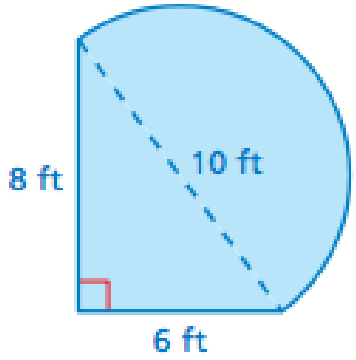
Estimate the perimeter of the figure.



So, the perimeter is about: _____

Finding a Perimeter of a Composite Figure

1) The figure is made up of a semicircle and a triangle. Find the perimeter.

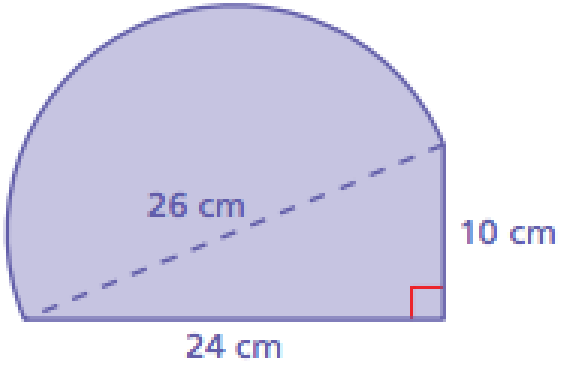


- Find the circumference
- Find half the circumference
- Add the straight sides

So, the perimeter is about: _____

Practice

2) The figure is made up of a semicircle and a triangle. Find the perimeter.

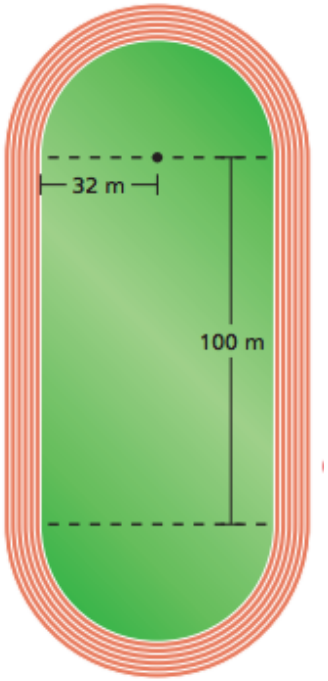


- Find the circumference
- Find half the circumference
- Add the straight sides

So, the perimeter is about: _____

Practice

3) The figure is made up of two semicircles and a rectangle. Find the perimeter.

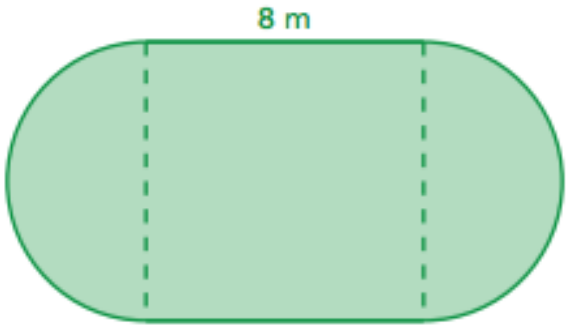


- Find the circumference
- Find half the circumference
- Add the straight sides

So, the perimeter is about: _____

Practice

4) The figure is made up of two semicircles and a square. Find the perimeter.



- Find the circumference
- Find half the circumference
- Add the straight sides

So, the perimeter is about: _____