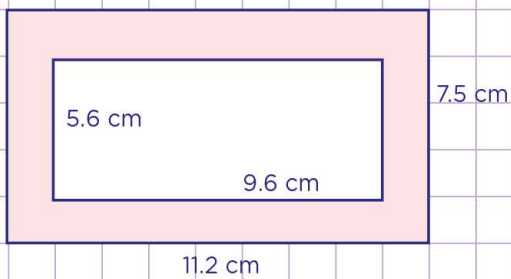
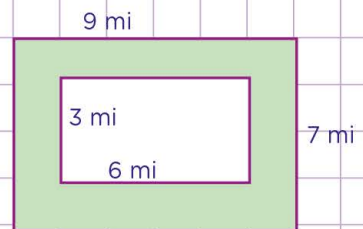
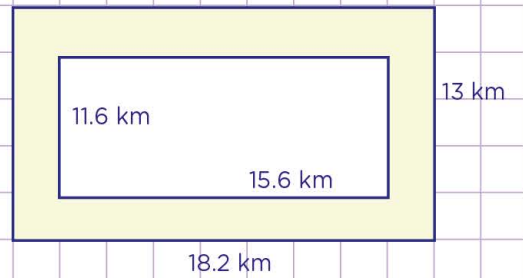


Name: Class:

Area between two rectangles

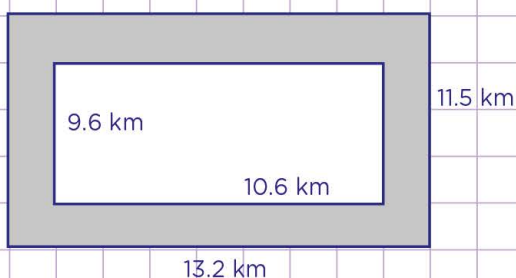
What is the area of the shaded region of the figures below?



Name: Class:

Area between two rectangles

What is the area of the shaded region of the figures below?



To calculate the area of the shaded region,
Subtract the area of the inner shape from
the area of the outer shape.

Area of inner rectangle = $L \times W$
 $L = 10.6 \text{ km}$
 $W = 9.6 \text{ km}$
 $\text{Area} = 10.6 \text{ km} \times 9.6 \text{ km}$
 $= 101.76 \text{ km}^2$

Area of outer rectangle = $L \times W$
 $L = 13.2 \text{ km}$
 $W = 11.5 \text{ km}$
 $\text{Area} = 13.2 \text{ km} \times 11.5 \text{ km}$
 $= 151.8 \text{ km}^2$

So, area of shaded region
 $= 151.8 \text{ km}^2 - 101.76 \text{ km}^2$
 $= 50.04 \text{ km}^2$

So, the area of the shaded region is 50.04 km^2 .



To calculate the area of the shaded region,
Subtract the area of the inner shape from
the area of the outer shape.

Area of inner rectangle = $L \times W$
 $L = 10 \text{ mi}$
 $W = 10 \text{ mi}$
 $\text{Area} = 10 \text{ mi} \times 10 \text{ mi}$
 $= 100 \text{ mi}^2$

Area of outer rectangle = $L \times W$
 $L = 20 \text{ mi}$
 $W = 20 \text{ mi}$
 $\text{Area} = 20 \text{ mi} \times 20 \text{ mi}$
 $= 400 \text{ mi}^2$

So, area of shaded region
 $= 400 \text{ mi}^2 - 100 \text{ mi}^2$
 $= 300 \text{ mi}^2$

So, the area of the shaded region is 300 mi^2 .