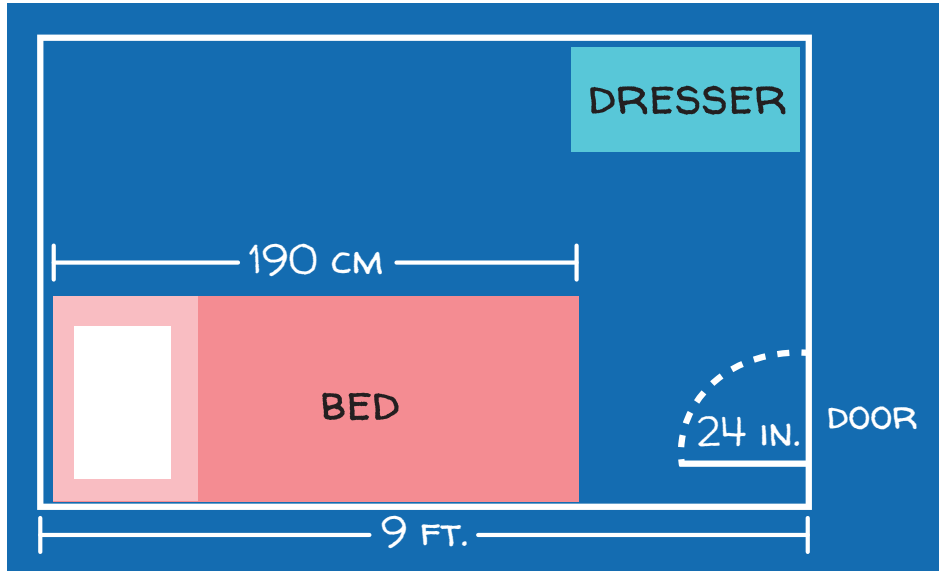


Raina's Redecoration: Converting Between Customary and Metric Units

Raina is redecorating her bedroom. She wants to order furniture and decorations from a French company. The company measures items in metric units, but Raina wants to know the measurements in customary units.

She plans on placing her new bed and dresser as shown in this blueprint.



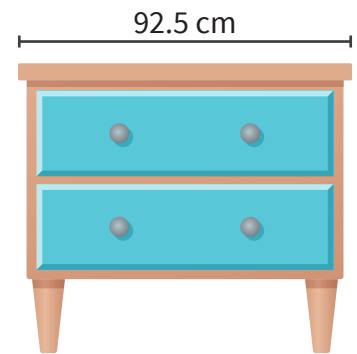
If 1 foot = 30.48 centimeters, how long is Raina's room in centimeters?

When the door is closed, how many centimeters will be left between the foot of Raina's bed and her bedroom door?

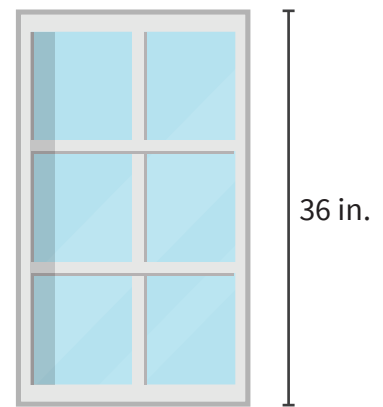
If Raina's bedroom door is 24 inches wide, will she have space to open her door completely? Explain. Remember that 12 inches = 1 foot.

Raina's Redecoration: Converting Between Customary and Metric Units

Raina has a square mirror that she wants to place on top of her new dresser. The mirror is 40 inches wide. If 1 inch = 2.54 centimeters, will the mirror fit on top of this dresser? Explain.



Raina orders curtains from the same company. The shortest curtains that the company sells are 62 centimeters long. Will those curtains be long enough to cover the entire length of her bedroom window? Explain.



Each item Raina orders will ship separately. If 1 kilogram \approx 2.2 pounds, find the approximate weight of each item in pounds. Round each answer to the nearest tenth.

Item	Weight (kg)	Approximate Weight (lb.)
Curtains	0.82	
Bed	24.2	
Dresser	26.3	

Use the values from the table to determine about how many pounds the items will weigh in all.