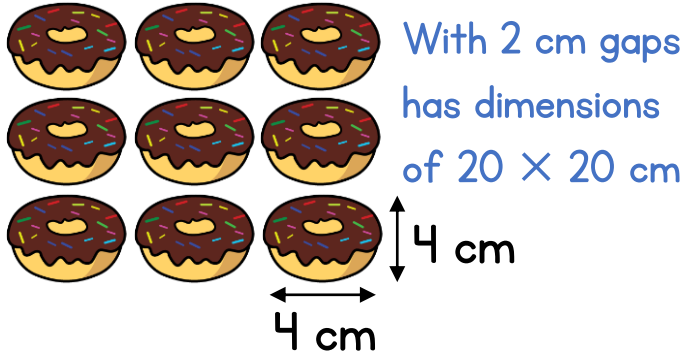
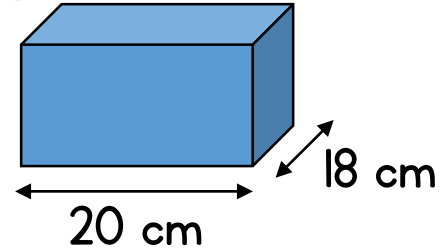


1 Select the most appropriate sized box for each set of items.

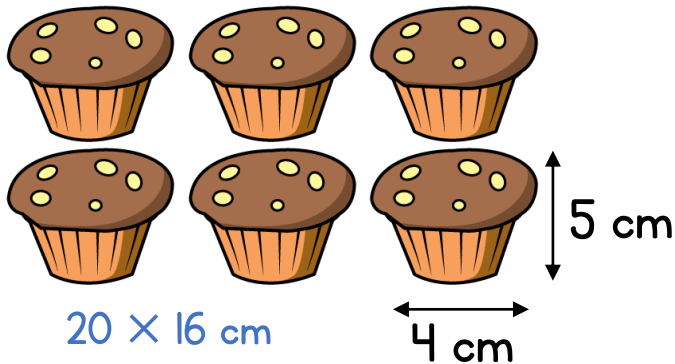
A



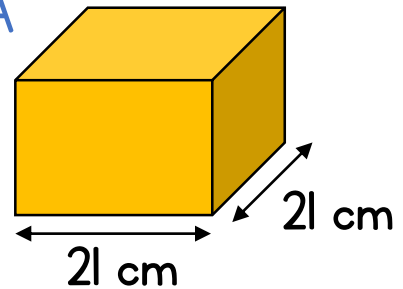
B



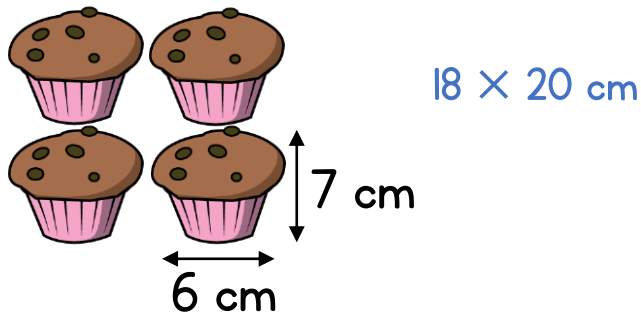
B



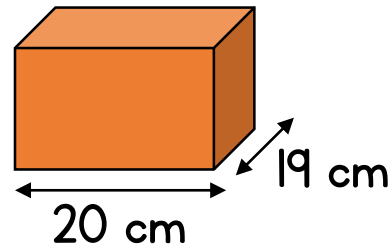
A



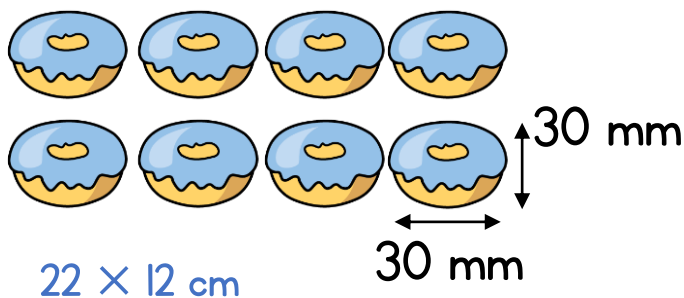
C



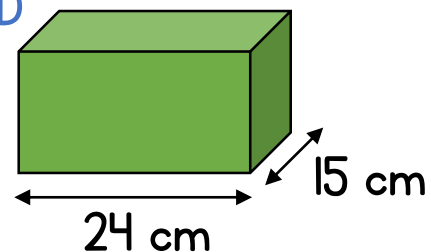
C



D

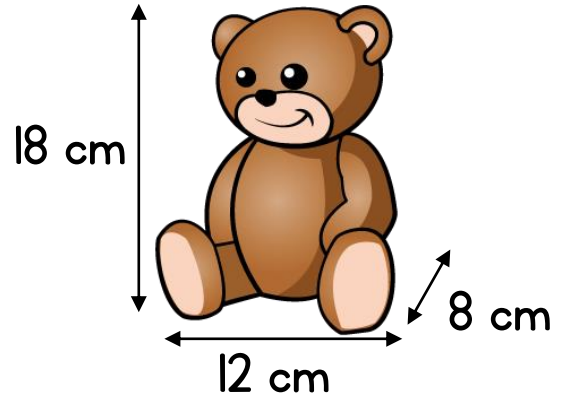
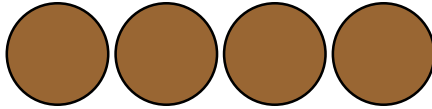


D

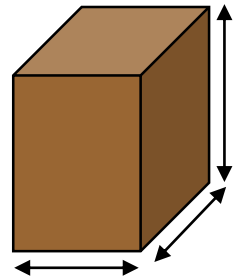
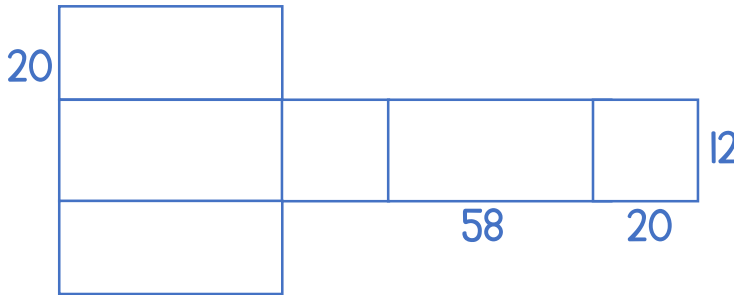


2 Here are the dimensions of a teddy bear.

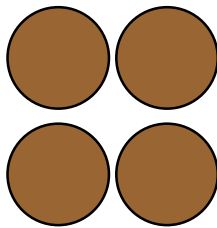
Looking into the box from above, the bears are arranged like this



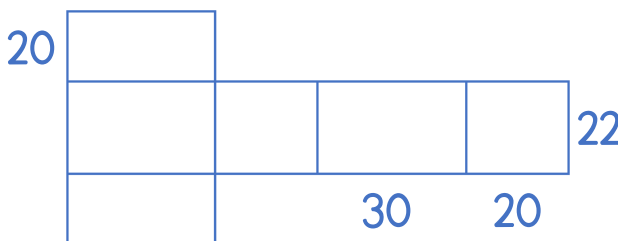
Sketch the net of the box needed to fit them in giving the dimensions.



The bears could also be arranged like this



Sketch the net of the box needed to fit them in giving the dimensions.

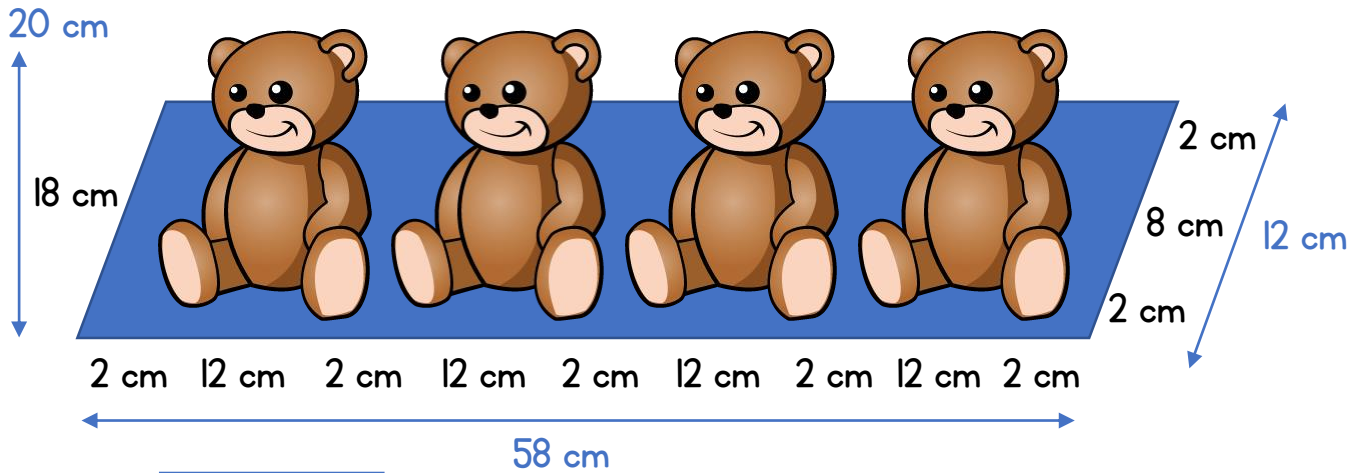


The first arrangement has a total area of  $4,192 \text{ cm}^2$  compared to a total area of  $3,400 \text{ cm}^2$  for the second arrangement so second is cheaper.

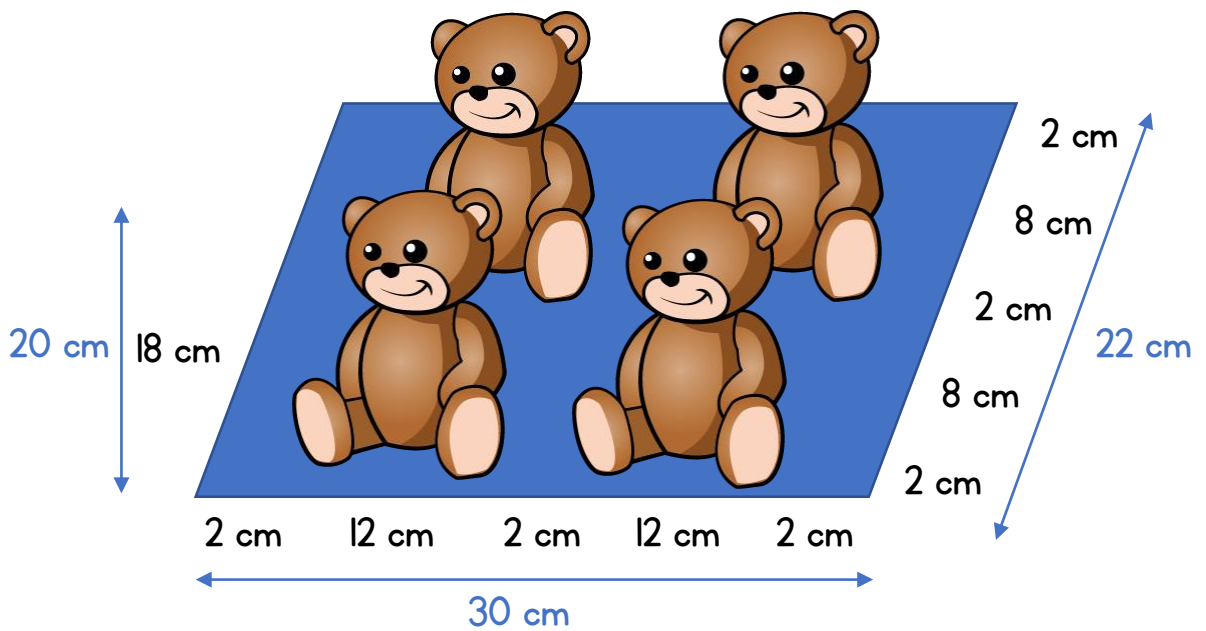
Which box would be cheaper to produce? Why?

# Packaging

2



20	1,160 cm <sup>2</sup>					
	696 cm <sup>2</sup>	240 cm <sup>2</sup>	696 cm <sup>2</sup>	240 cm <sup>2</sup>	12	Total area = 4,192 cm <sup>2</sup>
	1,160 cm <sup>2</sup>				58	
					20	



20	600 cm <sup>2</sup>					
	660 cm <sup>2</sup>	440 cm <sup>2</sup>	660 cm <sup>2</sup>	440 cm <sup>2</sup>	22	Total area = 3,400 cm <sup>2</sup>
	600 cm <sup>2</sup>				30	
					20	