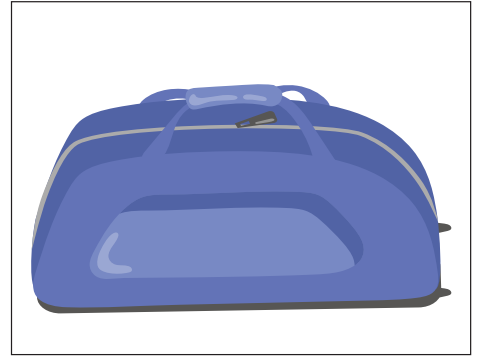




# FILL YOUR PACK

Pack choices:



## Dimensions

Height = 80cm  
Length = 35cm  
Width = 20cm

Height = 60cm  
Length = 45cm  
Width = 25cm

Height = 35cm  
Length = 90cm  
Width = 35cm

**Volume Formula:  $L \times W \times H = \text{cm}^3$**

1. Work out the volumes for each bag above. Show working in the space provided.



Height = 1cm  
Length = 20cm  
Width = 10cm

Height = 18cm  
Length = 9cm  
Width = 9cm

Height = 15cm  
Length = 30cm  
Width = 30cm

Height = 30cm  
Length = 15cm  
Width = 10cm

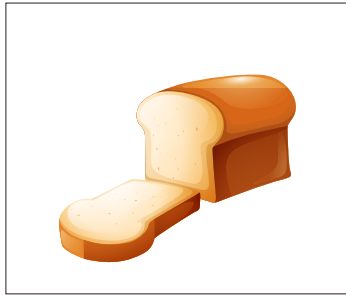
**Volume Formula:  $L \times W \times H = \text{cm}^3$**



# FILL YOUR PACK



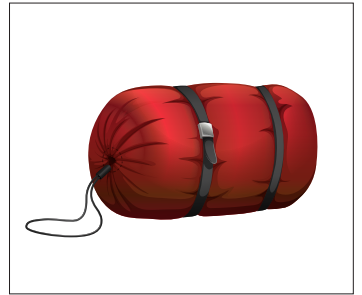
Height = 40cm  
Length = 25cm  
Width = 25cm



Height = 15cm  
Length = 15cm  
Width = 15cm



Height = 20cm  
Length = 15cm  
Width = 10cm



Height = 26cm  
Length = 38cm  
Width = 26cm

**Volume Formula:  $L \times W \times H = \text{cm}^3$**

\*\* All items have been estimated in rectangular prism measurements.

2. Choose 3 items from above to fit inside your pack. List them here

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3. Complete the volume for each of these 3 objects in the space provided above.

4. Add these 3 volumes together:

5. Will one of the pack choices fit your items inside? If yes, which one?

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6. If no, which item/s could you swap to ensure they all fit?

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7. In 3 sentences, why did you select these items?

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