

a)
 A container holds 700g of cereal, correct to the nearest 100g.
 A bowl of cereal contains 50g of cereal, correct to the nearest 10g.

What is the **greatest** number of bowls of cereal that can be filled from the container?

What are the bounds for the amount of cereal in the container?	$650g \leq c < 750g$
What are the bounds for the amount of cereal in a bowl?	$45g \leq b < 55g$
How can we maximise the number of bowls?	$\frac{c_{max}}{b_{min}} = \frac{750}{45}$
What is the greatest number of bowls possible?	$\frac{750}{45} = 16.\dot{6}$ 16

b)
 A container holds 1kg of cereal, correct to the nearest 100g.
 A bowl of cereal contains 60g of cereal, correct to the nearest 10g.

What is the **lower bound** for the number of bowls of cereal that can be filled from the container?

What are the bounds for the amount of cereal in the container?	$950g \leq c < 1050g$
What are the bounds for the amount of cereal in a bowl?	$55g \leq b < 65g$
How can we minimise the number of bowls?	$\frac{c_{min}}{b_{max}} = \frac{950}{65}$
What is the lower bound for the possible number of bowls?	

c)
 A container holds 1.5kg of rice, correct to the nearest 100g.
 A serving of rice contains 70g of cereal, correct to the nearest 10g.

What is the **greatest** number of full servings of rice that can be taken from the container?