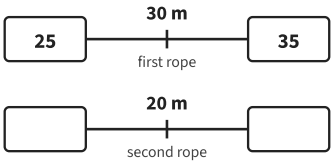
Bounds in calculations *lesson handout*

We do

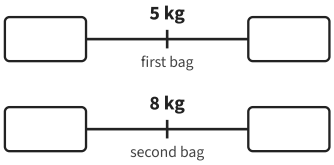
Two ropes are 30 m and 20 m, each to the nearest 10 m.
Find the greatest possible total length.



Greatest total = ☐ + ☐ = _____

You do

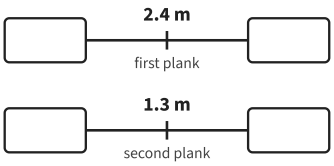
Two bags are 5 kg and 8 kg, each to the nearest kg.
Find the least possible total mass.



Least total = ☐ + ☐ = _____

You do

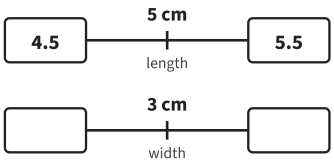
Two planks are 2.4 m and 1.3 m, each to 1 decimal place.
Find the greatest possible total length.



Greatest total = ☐ + ☐ = _____

We do

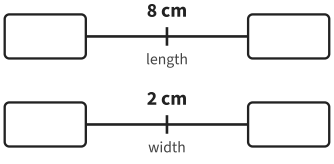
A rectangle is 5 cm by 3 cm, each to the nearest cm.
Find the least possible area.



Least area = ☐ × ☐ = _____

You do

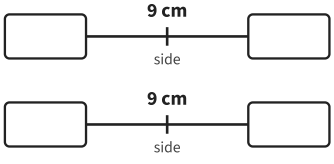
A rectangle is 8 cm by 2 cm, each to the nearest cm.
Find the greatest possible area.



Greatest area = ☐ × ☐ = _____

You do

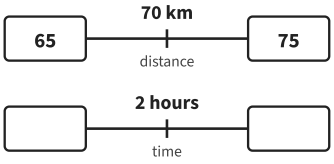
A square tile has sides of 9 cm, to the nearest cm.
Find the least possible area.



Least area = ☐ × ☐ = _____

We do

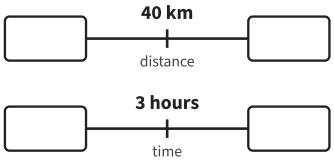
A car travels 70 km, to the nearest 10 km, in 2 hours, to the nearest hour. Find the least possible average speed.



Least speed = ☐ ÷ ☐ = _____

You do

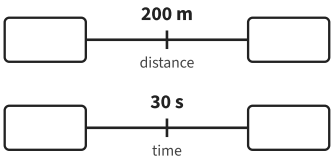
A boat sails 40 km, to the nearest 10 km, in 3 hours, to the nearest hour. Find the greatest possible average speed.



Greatest speed = ☐ ÷ ☐ = _____

You do

A runner covers 200 m, to the nearest 10 m, in 30 s, to the nearest second. Find the least possible speed (2 d.p.).



Least speed = ☐ ÷ ☐ = _____

Always, sometimes or never?

Write each answer and an example.

_____

_____

_____