01 **Mary cut a few pieces of string of length 5 cm each from a bundle. Later, she decided to cut the same number of pieces, but of length 4 cm each from the remaining string in the bundle. Altogether, she had cut 54 cm of the string. How many pieces of the string did she cut altogether ?**

5 cm strings		4 cm strings		Both types
Number	Total length	Number	Total length	Total length
1	5(1×5)	1	4(1×4)	5+4 = cm
2	10(2×5)	2	8(2×4)	10+8 = 18 cm
3	15(3×5)	3	12(3×4)	15+12 =27 cm
4	20(4×5)	4	16(4×4)	20+16 = 36 cm
5	25(5×5)	5	20(5×4)	25+20 = 15 cm
6	30(6×5)	6	24(6×4)	30+24 = 54 cm

Your solution here:

02 Rod A is $\frac{1}{3}$ as long as rod B. Rod C is $\frac{1}{2}$ as long as rod B. Rod A is 20 cm long. Find the length of rod C. (Recall that $\frac{1}{3}$ is 1 out of 3 equal parts and $\frac{1}{2}$ is 1 out of 2 equal parts.

(A) 20 cm (B) 30 cm (C) 60 cm (D) 10 cm

Your solution here:

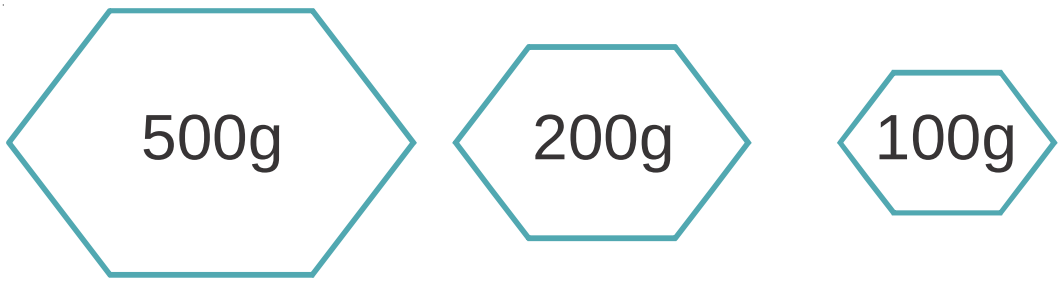
03 **Mrs. Taruni had 2025 cm of cloth. She made 2 identical dresses using 420 cm of cloth for each dress.**

(A) **How much cloth was left after she made the 2 dresses ? Give your answer in metres and centimetres.**

(B) **At least how much more cloth must she buy in order to make 3 more dresses of the same type ? Give your answer in centimetres.**

Your solution here:

04 **Kajal hod four pieces of each type of the following weights.**



She can use these weights to weigh items on a weighing scale. Kajal wants to measure exactly 1 kg 400g of flour. using at least one piece of each type of the weights shown above. How many ways can she do this ?

Your solution here:

05 **The volume of water in container P is 3 times the volume of water in container Q. Containers P and Q together have 12 *l* of water. Container R has 1350 ml less water than conainer P.**

(A) **Find the volume of water in container P in millilitres.**

(B) **What is the capacity of container R if 1400 ml more water is required to fill it completely ?**

Your solution here: