Topic 2 - Capacity & Volume
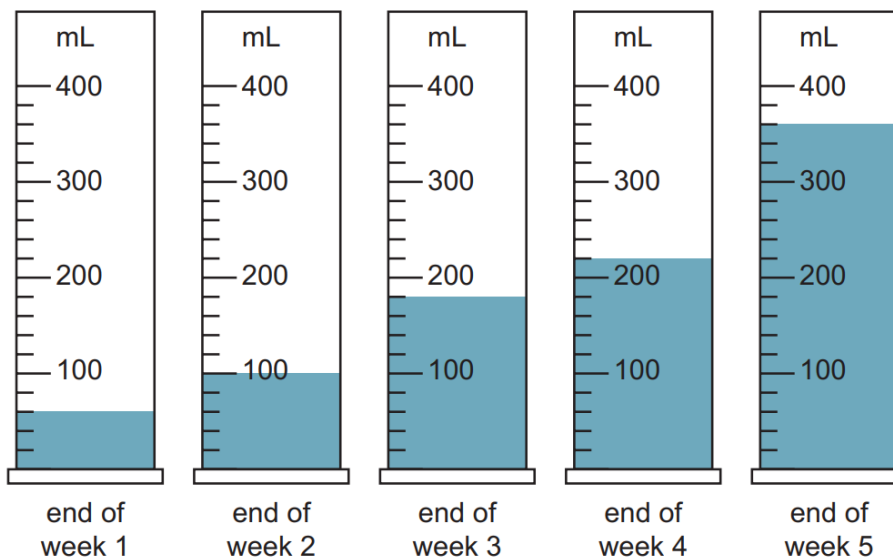
1 Seo-Jung has been recording rainfall for the last 5 weeks by collecting it in a container.

The container was empty at the start of week 1.

Seo-Jung recorded the amount of rain in the container at the end of each week. No water was lost during the 5 weeks.

The diagrams show what he recorded.

mL	mL	mL	mL	mL
400	400	400	400	400
300	300	300	300	300
200	200	200	200	200
100	100	100	100	100
end of week 1	end of week 2	end of week 3	end of week 4	end of week 5

During which two weeks was there exactly the same amount of rainfall?
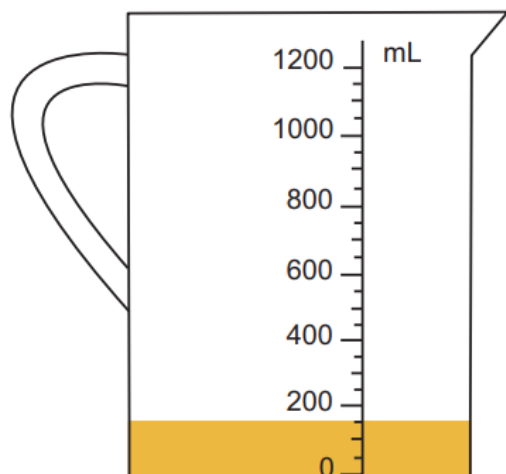
A   week 1 and week 2

B   week 1 and week 4

C   week 2 and week 3

D   week 2 and week 4

E   week 3 and week 5

2

Jan is making a mixed fruit drink for a party.

She puts some orange juice into the jug, as shown.

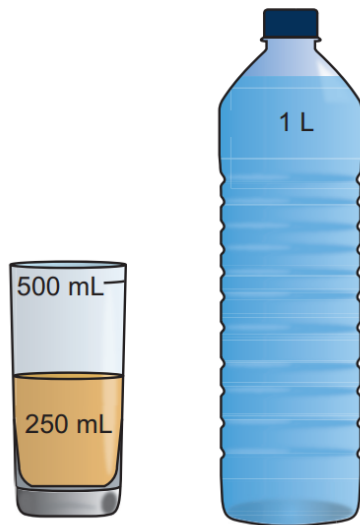She then adds 6 times as much apple juice.

How many millilitres of fruit drink does Jan make?

A   400 mL

B   525 mL

C   900 mL

D   1050 mL

E   1500 mL

3

Sooyoung has a glass containing 250 millilitres of cordial, and a bottle containing 1 litre of water.

glass   bottle

Sooyoung drinks 10 mL of the cordial.

She finds the drink too strong, so she pours water from the bottle into the glass until the water reaches the 500 mL mark.

How much water is left in the bottle?

A 240 mL

B 260 mL

C 740 mL

D 760 mL

E 990 mL

4	Three containers have different amounts of water inside.

Container X has 1 litre 75 millilitres of water.

Container Y has 3 litres 45 millilitres of water.

Container Z has 1250 millilitres of water.

If the water from all three containers is combined, what will its volume be, in litres (L) and millilitres (mL)?

A   5 L 37 mL

B   5 L 370 mL

C   6 L 45 mL

D   6 L 450 mL

E   17 L 70 mL

5

Four old units for capacity are: gill, pint, quart and peck.

- 4 gills equal 1 pint.
- 1 pint equals half a quart.
- 8 quarts equal 1 peck.

How many gills equal 1 peck?

A   13

B   14

C   16

D   32

E   64

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Answer Key

1	D
2	Four marks on the scale is 200 mL, so each mark represents 200 ÷ 4 = 50 mL. Looking at the scale, we can see that Jan puts 150 mL of orange juice in the jug. She adds six times as much apple juice. 6 × 150 = 900 mL. (One way to work this out is to do 6 × 100 + 6 × 50 which is 600 + 300.) So in total there is 900 + 150 = 1050 mL of fruit drink, so the correct answer is **D 1050 mL**.
3	Sooyoung had 250 mL of cordial and drank 10 mL, leaving 250 – 10 = 240 mL in the glass. She poured water in up to the 500 mL mark, so she poured in 500 – 240 = 260 mL of water from the bottle. The bottle originally contained 1 litre which is 1000 mL, so when she poured out 260 mL, she left 1000 – 260 = 740 mL of water in the bottle. So the correct answer is **C 740 mL**.
4	B
5	E