Question No 5 PLE 2023.

Qn. A training for scouts started on a Wednesday and took 30 days. Find the day of the week on which the training ended.

Note the following before answering the question.

» Since the training STARTED on Wednesday, it means Wednesday was part of the 30 days the training lasted.

» So after Wednesday (first day of the training), the training would last for more 29 days.

Solution

Approach 1

Wednesday + 29 = _ (finite 7) ✓m1

First day of the training

The remaining days after

3 + 29 = _ (finite 7)

32 = _ (finite 7).

32 ÷ 7 = 4 rem. 4

Take the remainder 4 to be your answer

4 stands for Thursday ✓A1

∴ The training ended on Thursday

Approach 2

The day the training started.

Sun	Mon	Tue	Wed	Thur	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

We count 30 days starting from Wednesday

The training ended on Thursday.

∴ The training ended on Thursday.

Another Question involving "will it be".

Qn. Today is Wednesday, What day of the week will it be after 30 days.

Note the following

» From the question, we are to count 30 days (AFTER) Wednesday, so Wednesday is not part of the 30 days because the 30 days come after it.

Approach 1

Wed + 30 = — (finite 7)

The 30days after Wednesday)

3+30 = — (finite 7).

33 ÷ 7 = 4 rem. 5

Take 5 as your answer since it's the remainder.

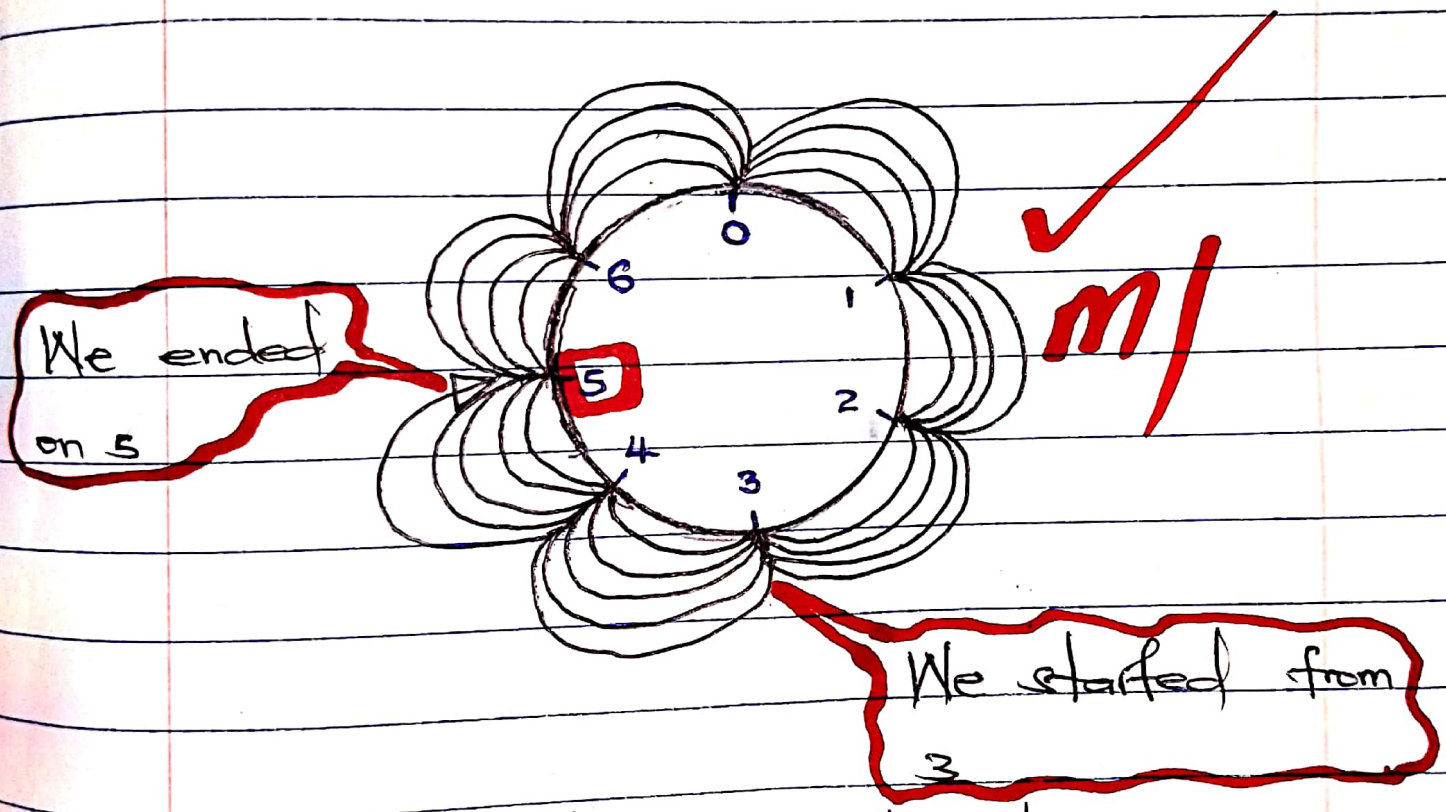
3+30 = 5 (finite 7)

5 stands for Friday,

Therefore, Friday will be the day

Approach 2

Note, We can also use dial method as seen below.



5 stands for Friday.

Therefore, Friday will be the day.

Approach 3.

We start counting from Thursday since it's the first day that comes after Wednesday

Sun	Mon	Tue	Wed	Thur	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

We count 30 days from Thursday.

Friday will be the 30th day

Note: when the question involves "After", We directly add the days to the mentioned day of the week.

Therefore, Friday will be the day.

Questions involving "was it or ago"

Qn.1

Today is

The scouts' training that lasted for 30days ended on Thursday. On what day of the week did it start?

Note the following

» This question is the opposite of Number 5 PLE 2023.

» We should include Thursday since it's part of the 30 days the training lasted

» Before Thursday which is the last day of the training, the training had lasted for 29 days.

Solution

last day of the training

We subtract 29 days before Thursday

Thursday − 29 = − (finite 7).

4 − 29 = − (finite 7).

4 − (29 ÷ 7) = − (finite 7).

4 − (4 rem. 1) = − (finite 7).

4 − 1 = 3 (finite 7).

3 stands for Wednesday.

∴ Wednesday was the day the training started.

Try other related approaches but considering Thursday being part of the 30 days the training lasted.

Last Example.

Qn: Today is Wednesday, what day of the week was it 30 days ago.

Note: Since the word "ago" appears in the question, We are to count 30 days before Wednesday

Solution

Wed. - 30 = - (finite 7)

3 - 30 = - (finite 7).

3 - (30 ÷ 7) = - (finite 7).

3 - (4 rem 2) = - (finite 7).

3 - 2 = 1 (finite 7

1 stands for Monday.

∴ Monday was the day.

Note: Try related approaches too.