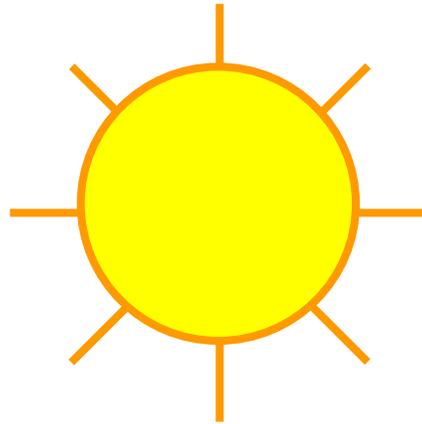


Day of the Week

DOTW (Day of the Week) math!

Memorize the following numbers for each DOTW:

#	DOTW	BrainAid
0	Sunday	Zero ~ Sun 
1	Monday	M'on' ~ 'on'e 
2	Tuesday	Tue ~ Two
3	Wednesday	Wed, nes, & day all have 3 letters
4	Thursday	Th'ur' ~ Fo'ur'
5	Friday	<u>Fri</u> ~ <u>Five</u>
6	Saturday	<u>Sat</u> ~ <u>Six</u>



TO DETERMINE A FUTURE DOTW

Add number of days, then subtract multiple of 7 so result is from 0 to 6.

If sum is from 0 to 6, match number to DOTW:

What day is 4 days after Tuesday? 2 (Tue) + 4 days = 6 (Sat)

If sum is from 7 to 13, subtract 7:

What day is 10 days after Monday? 1 (Mon) + 10 days = 11; $11 - 7 = 4$ (Thu)

If sum is from 14 to 20, subtract 14:

What day is 17 days after Wednesday? 3 (Wed) + 17 days = 20; $20 - 14 = 6$ (Sat)

If sum is from 21 to 27, subtract 21:

What day is 22 days after Thursday? 4 (Thu) + 22 days = 26; $26 - 21 = 5$ (Fri)

If sum is from 28 to 34, subtract 28:

What day is 30 days after Sunday? 0 (Sun) + 30 days = 30; $30 - 28 = 2$ (Tue)

TO DETERMINE A PAST DOTW

Subtract number of days, then add multiple of 7 so result is from 0 to 6.

If difference is from 0 to 6, match number to DOTW:

What day is 4 days before Friday? 5 (Fri) - 4 days = 1 (Mon)

If difference is from -1 to -7, add 7:

What day is 6 days before Monday? 1 (Mon) - 6 days = -5; $-5 + 7 = 2$ (Tue)

If difference is from -8 to -14, add 14:

What day is 17 days before Wednesday? 3 (Wed) - 17 days = -14; $-14 + 14 = 0$ (Sun)

If difference is from -15 to -21, add 21:

What day is 22 days before Thursday? 4 (Thu) - 22 days = -18; $-18 + 21 = 3$ (Wed)

If difference is from -22 to -28, add 28:

What day is 24 days before Tuesday? 2 (Tue) - 24 days = -22; $-22 + 28 = 6$ (Sat)

If difference is from -29 to -35, add 35:

What day is 30 days before Sunday? 0 (Sun) - 30 days = -30; $-30 + 35 = 5$ (Fri)

General Rule

Subtract or add multiples of 7

$$\begin{aligned}7 \times 1 &= 7 \\7 \times 2 &= 14 \\7 \times 3 &= 21 \\7 \times 4 &= 28 \\7 \times 5 &= 35\end{aligned}$$

until you get a number between 0 and 6.

If result > 6 on first try, keep going:

What day is 40 days from Tuesday?

$$\begin{aligned}2 \text{ (Tue)} + 40 \text{ days} &= 42 \\42 - 35 &= 7 \\7 - 7 &= 0 \text{ (Sun)}\end{aligned}$$

Exact Multiples

If the days added or subtracted are an *exact* multiple of 7, the DOTW remains the same.

What day is 35 days from Friday?

$$\begin{aligned}5 \text{ (Fri)} + 35 \text{ days} &= 40 \\40 - 35 &= 5 \text{ (Fri)}\end{aligned}$$