

01

WEDNESDAY

~~10/01/23~~

Wk-23 • 152-213

JUNE

| | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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 | M | T | W | T | F | S | S | M |

VEDIC MATHS.# Base:

Bases are the nos. starting with 1, followed by any no. of zeros for eg:

10, 100, 1000, 10000, 100000, --

compliment:

Those two nos. which when added with each other results in the next nearest base are called compliments of each other.

THURSDAY

153-212

$$\text{Eg: } 48 + 52 = 100$$

$$\begin{array}{r} \cancel{4}2 \\ \cancel{6}5 \\ 211 \end{array} \quad \begin{array}{r} \leftarrow \rightarrow \overline{48} \\ \leftarrow \overline{35} \\ \leftarrow \overline{789} \end{array} \quad \begin{array}{l} = 100 - 48 = 52 \\ = 100 - 35 = 65 \\ = 1000 - 789 = 211 \end{array}$$

Q. find the compliment of 3915001593.

6184998414

sol: Rule → All form 9 and last forms 10
(formula) Ni Khilam Navatasn casamam Dashatali

JUNE '22

JULY

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|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|
| 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 | 31 | | | | | | |
| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S |

03

FRIDAY

154-211 • Wk-23

To find the complement of any no. subtract all the digits from 9 and the last digit from 10, where the last digit means the unit place digit, which should be non-zero.

Q. find the complement of the following no.

1) 43568375 \rightarrow 56431625 **56431625**

2) 3059342011 \rightarrow 6940657989 **6940657989**

3) 2437311298 \rightarrow 7562688702 **7562688702**

4) 4783840056 \rightarrow 5216159944
5216159944

5) 706073000 \rightarrow 293927000
293927000

04

155-210 SATURDAY

6) 809000910000 \rightarrow 190999090000
190999090000

7) 437.26 \rightarrow 562.74
562.74

8) 638000.0026 \rightarrow 361999.9974
361999.9974

9) 724.8500 \rightarrow 275.1500

SUNDAY 05

10) 9306007.0001 \rightarrow 693992.9999
693992.9999

11) 1.000007 \rightarrow 8.999993
8.999993

06

MONDAY

Wk-24 • 157-208

JUNE

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|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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 | | | | | | | | |
| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F |

JUNE '22

Multiplication with 9, 99, 999, ---



$$\begin{array}{r} 315 \times 999 \\ 315 \quad | \quad 685 \end{array}$$

Case I : If multiplicand digits = no. of multipliers digit $\Rightarrow 314\ 685$

Take the complement of 315 X 999
complement of 315 for RHS.
this no. for LHS.

$$\begin{array}{r} \cancel{\text{LHS}} \quad \cancel{\text{X}} \\ \underline{314} \qquad \underline{685} \end{array}$$

Step I : LHS

$$315 - 1 = 314$$

07

TUESDAY

158-207

$$315 \times 999 = 314\ 685$$

$$\underline{315} = 685$$

Step II : RHS

$$1) 1765 \times 9999 \Rightarrow 17648235$$

$$17648235$$

$$2) 85671 \times 99999 \Rightarrow 8567014329$$

$$3567064329$$

$$3) 732401 \times 99999 \Rightarrow 732400267599$$

$$732400267599$$

$$4) 789526 \times 999999 \Rightarrow 789525210474$$

$$789525210474$$

$$5) 9426781 \times 9999999 \Rightarrow 94267800573219$$

$$94267800573219$$

Don't let what you can't do interfere with what you can do.

JUNE '22

JULY

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 31

M T W T F S S M T W T F S S M T W T F S S

08

WEDNESDAY

159-206 • Wk-24

9) 6) $78952631 \times 99999999 \rightarrow 7895263021047369$

10) 7895263021047369

11) 7) $3153.25 \times 999999 \rightarrow 315324684675$

12) 315324684675

1) 8) $9325.3 \times 99999 \rightarrow 9325206747$

2) 9325206747

3

4

5

6

7

09

160-205 THURSDAY

9

10

11

12

1

2

3

4

5

6

7

11/01/23

Case II : Multiplicand digits < multiplier digits

Method 1.

$$67 \times 9999$$

for complements consider whole 2

$$\begin{array}{r} 4 \\ \overbrace{0067}^{\text{LHS.}} \times \overbrace{9999}^{\text{RHS.}} \\ \hline \end{array}$$

RHS \rightarrow 09

0067 160-205 THURSDAY
= 9933

$$67 \times 9999 = 669933$$

Method 2.

$$\begin{array}{c|c|c} \text{LHS} & & \text{RHS} \\ \hline (67 - 1) & 99 & 67 \\ @ & & \end{array}$$

replace the zeros w/ a no. of 9.

$$\Rightarrow 67 \times 9999 = 669933$$

10

FRIDAY

Wk-24 • 161-204

JUNE

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|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
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| 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | | | | | |
| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F |

JUNE '22

- Q. 1) $243 \times 9999 \rightarrow 2429757$
- 2) $645 \times 99999999 \rightarrow 64499999355$
- 3) $4237901 \times 9999999999 \rightarrow 4237900995762099$
- 4) $380.01 \times 9999999 \rightarrow 3800099619.99$
- 5) $576.0700 \times 999999999999 \rightarrow 57606999999423900$
- 6) $64.179 \times 9999999 \rightarrow 641789935821$
- ~~576.0700~~ $\rightarrow 641789935821$

11

~~Method 3~~

SATURDAY Case 62-III : Multiplicand digit > Multiplier digits

~~Ans~~

$$378 \times 99$$

LHS $(3)/(18) \rightarrow$ take complement for RHS
 $(3+1) = 4$ deduct from whole no.

$$378 \times 99 \rightarrow 37422$$

12 SUNDAY

Step I : divide the multiplicand into two parts such that the no. of digits of RHS of multiplicand is equal to the no. of 9's in the multiplier.

Whoever wants to reach a distant goal must take small steps.

JUNE '22

JULY

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|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|
| 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 | 31 | | | | | | | |
| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S |

13

MONDAY

164-201 • Wk-25

Step II: Add 1 to the LHS of multiplicand and subtract the no. obtained from the whole of the multiplicand to get LHS of the answer.

Step III: For RHS of the answer, write the compliment of RHS of multiplicand.

$$1) \quad 3274 \times 99 \rightarrow 324126 \\ 324126$$

$$2) \quad 4257428 \times 999999 \rightarrow 425738542572 \\ 425738542572$$

$$3) \quad 42767 \times 9999 \rightarrow 427627233 \\ 427627233$$

14

$$4) \quad 94673192 \times 9999999 \rightarrow 946731826520321808 \\ 94673091321808$$

$$5) \quad 23131534987 \times 9999999 \rightarrow 23139532673 \\ 231395326130465013 \quad 0465013$$

$$6) \quad 9039135960855 \times 999999 \rightarrow 9039135960855 \\ 9039135960855$$

$$7) \quad 999 \times 99 \quad (\text{consider multiplicand accordingly}) \\ 98001 \rightarrow 98901$$

@

15

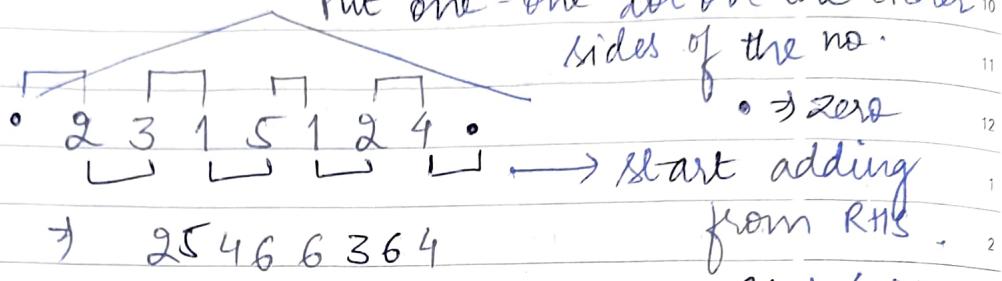
WEDNESDAY

16/01/23.

Wk-25 • 166-199

JUNE '22

| | | | | | | | | | | | | | | | | | | | |
|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| JUNE | 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 | | | | | | | | |
| | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F |

Multiplication with 11, 111, ...~~* Case I.~~

Dot sandwich

only the last two

$$Q. 1) \underline{354217081} \times 11 \rightarrow 3896387891$$

$$2) \underline{4573} \times 11 \rightarrow 50303$$

→ if addition results in two-digit carry on next.

$$16) \underline{50303}$$

$$3) \underline{2834632419} \times 11 \rightarrow 3232180956609$$

$$\text{THURSDAY } 16/01/99 \quad \underline{31180956609}$$

$$4) \underline{436232451} \times 11 \rightarrow 4798556961$$

$$5) \underline{4798556961}$$

$$6) \underline{48947211469} \times 11 \rightarrow 0538419326159$$

$$\underline{538419326259}$$

$$7) \underline{28378680466781} \times 11 \rightarrow 312165485134591$$

$$\underline{312165485134591}$$

$$* 23015 \times 22$$

$$\rightarrow (23015 \times 2) \times 11$$

$$\rightarrow 46030 \times 11$$

$$= 506330 @$$

JUNE '22

JULY

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 31

M T W T F S S M T W T F S S M T W T F S S

17

FRIDAY

168-197 • Wk-25

9) Q. 1) $28151 \times 33 \rightarrow (28151 \times 3) \times 11$

$$\begin{aligned} &= 84453 \times 11 \\ &= 928983 \end{aligned}$$

2) $7361 \times 66 \rightarrow (7361 \times 6) \times 11$
 $= 44166 \times 11$
 $= 485826$

3) $34273 \times 77 \rightarrow (34273 \times 7) \times 11$
 $= 239911 \times 11$
 $= 339021$

4) $45132 \times 44 \rightarrow (45132 \times 4) \times 11$
 $= 180528 \times 11$
 $= 1985808$

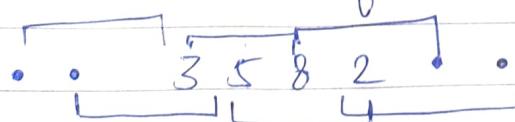
18

169-196 SATURDAY

~~* Case II.~~Multiplication with 111.

$$3582 \times 111$$

5) Put 2 dots on each sides of the number.



SUNDAY 19

$$S_1 \rightarrow 2+0+0=2$$

$$S_2 \rightarrow 8+2+0=10$$

$$S_3 \rightarrow 5+8+2=15+1 \rightarrow 16$$

$$S_4 \rightarrow 9+7+6+0+2=30$$

$$S_5 \rightarrow 3+5+8=16$$

$$S_6 \rightarrow 0+0+3=3$$



SCIENCE OLYMPIAD FOUNDATION

20

MONDAY

Wk-26 • 171-194

JUNE '22

| JUNE | | 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 | | | | | | | | |
| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | |

Q. 1) 8732594×111

$$\begin{array}{r} \cdot \quad 8 \quad 7 \quad 3 \quad 2 \quad 5 \quad 9 \quad 4 \quad \cdot \\ \boxed{4} \quad \boxed{1} \quad \boxed{1} \quad \boxed{1} \end{array}$$

$$\begin{array}{r} \rightarrow \quad \text{[redacted]} \\ \text{[redacted]} \quad \text{[redacted]} \quad \text{[redacted]} \quad \text{[redacted]} \quad \text{[redacted]} \quad \text{[redacted]} \quad 4 \end{array}$$

2) 247338943×111

$$\begin{array}{r} \cdot \quad 2 \quad 4 \quad 7 \quad 3 \quad 3 \quad 8 \quad 9 \quad 4 \quad 3 \quad \cdot \\ \boxed{2} \quad \boxed{4} \quad \boxed{1} \quad \boxed{1} \quad \boxed{1} \quad \boxed{2} \quad \boxed{2} \end{array}$$

$$27454622673$$

21

TUESDAY

172-193

$$\begin{array}{r} \rightarrow \quad 2 \quad 7 \quad 4 \quad 4 \quad 5 \quad 4 \quad 6 \quad 2 \quad 2 \quad 6 \quad 7 \quad 3 \end{array}$$



3) 7028152×111

$$\begin{array}{r} \cdot \quad 7 \quad 0 \quad 2 \quad 8 \quad 1 \quad 5 \quad 2 \quad \cdot \\ \boxed{7} \quad \boxed{0} \quad \boxed{2} \quad \boxed{8} \quad \boxed{1} \quad \boxed{5} \quad \boxed{2} \end{array}$$

$$780124872$$

$$\begin{array}{r} \rightarrow \quad 7 \quad 8 \quad 0 \quad 1 \quad 2 \quad 4 \quad 8 \quad 7 \quad 2 \end{array}$$

@

First say to yourself what you would do; and then do what you have to do.

JUNE '22

17th / 01 / 23

JULY

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|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
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| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | |
| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | F |

22

WEDNESDAY

173-192 • Wk-26

- Q. 1) $92173 \times 11 \rightarrow 1013903$
- 2) $273503 \times 111 \rightarrow 30358833$
- 3) $7021 \times 1111 \rightarrow 7800331$
- 4) $211892 \times 11111 \rightarrow 2354332012$
- 5) $209143 \times 111111 \rightarrow 23238087873$
- 6) $413012 \times 1111111 \rightarrow 45880176332$

Multiplying no. by 12, 112, 1112, --

$$\begin{array}{r} 13, \\ 113, \\ \hline 14, \end{array}$$

23

THURSDAY

$$\begin{array}{r} 19, \\ 119, \\ \hline 1119, \end{array}$$

* with 12

$$43 \times 12$$

$$\begin{array}{r} 12 \\ \cancel{3} \swarrow \searrow \\ \underline{\underline{s_1}} \end{array}$$

$$\bullet \underline{43} \bullet$$

$$3 \times 2 + 0 \times 1 = 6$$

$$\begin{array}{r} 516 \\ @ \\ 43 \times 12 \rightarrow 516 \end{array}$$

$$\underline{\underline{s_2}}$$

$$\begin{array}{r} 12 \\ \cancel{4} \swarrow \searrow \\ 3 \end{array}$$

$$8 + 3 = 11 \quad S \text{ } \text{ } F$$

$$\underline{\underline{s_3}}$$

$$04 \rightarrow 0 + 4 = 4$$

24

FRIDAY

Wk-26 • 175-190

JUNE

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| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T |

Q. 1) 3785×12

$\cdot 3785 \cdot$

$\Rightarrow 454210$

$4,542,10$

2) $5732 \times 12 \Rightarrow 68784$

3) $93264 \times 12 \Rightarrow 1119168$

4) $2472453 \times 12 \Rightarrow 29669436$

* with $\cancel{112}$

435×112

$1 \quad 1 \quad 2$

$\underline{435} \quad \dots$

$\cancel{5} \quad \dots$

25

SATURDAY 176-189

$\Rightarrow 48720$

$5 \times 2 + 0 \times 1 + 0 \times$
 $= 10$

* with $\cancel{112}$

5321×1112

$\dots \underline{5321} \dots$

26 SUNDAY

$\Rightarrow 5916952$

@

JUNE '22

JULY

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| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | | | | |
| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S |

27

MONDAY

178-187 • Wk-27

9) ~~B.~~ 1) $71841 \times 112 \rightarrow 7946192$

11) 2) $53416 \times 1112 \rightarrow 59398592$

1) 3) $42619 \times 11112 \rightarrow 473582328$

3) 4) $83416 \times 111112 \rightarrow 9268518592$

5) $2732 \times 111112 \rightarrow 303557984$

* with 13.

275×13

$\rightarrow \begin{array}{r} \cdot 275 \\ \cdot \end{array}$
 $\rightarrow 3525$

$S_1 \rightarrow 5 \times 3 + 0 \times 1$

179-186

28

TUESDAY

* with 113.

12031×113

$\begin{array}{r} \cdot \cdot 12031 \cdot \cdot \\ \cdot \end{array}$

$\rightarrow 1359503$

* with 14.

735×14
 $\rightarrow 10290$

29

WEDNESDAY

~~18/01/23~~

Wk-27 • 180-185

$$\text{Q. 1) } 32151 \times 1115 = 35848865$$

$$\text{2) } 47253 \times 11116 = 525264348$$

$$\text{3) } 36041 \times 19 = 684779$$

$$\text{4) } 21672 \times 114 = 2470608$$

$$\text{5) } 12384 \times 11118 = 137685312$$

$$\text{6) } 621315 \times 1117 = 694008855$$

$$\text{7) } 481 \times 11113 = 5345353$$

30

Subtraction :

THURSDAY

181-184

* Case I : Subtraction of a number from its base:

$$\text{Q. } 100000 - 52091 \rightarrow 47909$$

$$\text{Q. } (100000 - 621592) \times 11$$

$$= (378408) \times 11$$

$$= 4162488$$

@

JUNE

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| 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | | | | |
| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | F |

JULY '22

JULY

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| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | |
| T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | F | S |

01

FRIDAY

182-183 • Wk-27

* Case II : Subtraction of a number from a bigger base :

Q. $10000 - 23$

$\rightarrow 10000 - 0023$ (nearest base is 100
to 2 zeros extra)
= 9977

Q. $10000000 - 27901$

$\rightarrow 9999997 \cdot 2099$

02

183-182 SATURDAY

Q. 1) $100000 - 77 \rightarrow 99923$

2) $1000000 - 2301 \rightarrow 97699$

3) $10000000 - 631 \rightarrow 999369$

4) $10000000 - 3 \rightarrow 999997$

5) $100000 - 8.05 \rightarrow 99991.95$

SUNDAY 03

6) $1 - 0.00238 \rightarrow$

7.0036

7) $10 - 2.99640 \rightarrow$

04

MONDAY

Wk-28 • 185-180

JULY

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|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| M | T | W | T | F | S | S | M | T | W | T | F | S | M |

JULY

$$8) \quad 100 - 72.42 \rightarrow 27.58$$

$$9) \quad 10000000 - 7215.2463992784 \cdot 754$$

$$10) \quad 10000 - 4908 \rightarrow 5092$$

Case III : Subtraction of a number from working base:

Eg. $400 - 63$

$$\rightarrow 300 + (100 - 63)$$

$$= 300 + 37$$

$$\rightarrow 337$$

05

TUESDAY

~~Method 2~~

~~If no. of zeros = no. of digits in subtractand~~

$$\begin{array}{r}
 \begin{array}{c} 400 \\ \downarrow \\ (4-1) \end{array} & \begin{array}{c} \overline{163} \\ \downarrow \end{array} & \begin{array}{c} \text{compliment.} \\ 37 \rightarrow \text{RHS} \end{array}
 \end{array}$$

$$\rightarrow 400 - 63 = 337$$

@

JULY '22

AUGUST

| | | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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 | 31 | | | | | | | | | | | |
| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S |

06

WEDNESDAY

187-178 • Wk-28

eg. $700000 - 39525$ $\rightarrow 660475$ eg. $5\cancel{0}000 - 317$

put these no. of 9s.

 $\rightarrow 499683$ Q. 1) $6000 - 88 \rightarrow 5912$ Q. 2) $50000 - 23.31 \rightarrow 49976.69$

188-177 THURSDAY

07

Q. 3) $80000 - 3.08 \rightarrow 79996.92$ Q. 4) $30000 - 0.132 \rightarrow 29999.868$ Q. 5) $200000 - 1285.36 \rightarrow 199714.64$ Q. 6) $70000 - 23.6 \rightarrow 69976.4$ 

@

08

FRIDAY

Wk-28 • 189-176

JULY

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|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
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| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M |

when no. of digits in subtract hand are more than no. of zeros:

$$\underline{9000} - \underline{5246}$$

LHS
 $(9-5)-1$
or

RHS

$$\underline{246}$$

$$9 - (5+1)$$

3

$$\underline{246}$$

$$754$$

09

$$\Rightarrow 9000 - 5246 = 3754$$

SATURDAY

190-175

1) $300 - 132 \Rightarrow 168$

2) $4000 - 231 \Rightarrow 3769$

3) $500000 - 245613 \Rightarrow 254387$

4) $7000 - 431.05 \Rightarrow 6568.95$

10 SUNDAY

5) $6000 - 1238 \Rightarrow 4761$

6) $7000 - \underbrace{32518}_{\text{ }} \Rightarrow -25515$

7) $80000 - 7215.002 \Rightarrow 72784.998$

Progress has little to do with speed, but much to do with direction.

JULY '22

23rd Jan 23

| | | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
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| 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | | | | | | | | |
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AUGUST

11

MONDAY

192-173 • Wk-29

9 Q. 1) $100000 - 72913 = 27087$

10
11 2) $100000 - 9501 = 90499$

12
1 3) $300000 - 59.75 = 299940.25$

3 4) $50000 - 4509 = 45491$

5 5) $70000 - 59501 = 10499$

General Subtraction w/o Borrow →

12

9 $4156 - 2679$

10 S₁ → 9 $\cancel{7}$ 6 → +
11 4 1 5 6 → 1
12 → 9 → 1 → 7

1 2 - 2 6 7 9
2 1 4 7 7

3 6 + 1 = 7

4 S₂ → Put a dot on following
5 no. after adding

6 S₃ → 6 = 6 + 1 = 7

7 7 = 7 + 1 = 8

8 → 7 = 3 + 1 = 4

9 → 8 = 2 → 2 + 5 = 7

10 S₄ → 2 = 2 + 1 = 3



11 3 < 4 → 4 - 3 = 1

12 (No need to put a dot after following no. after conventional subtraction.)

13

WEDNESDAY

Wk-29 • 194-171

JULY '22

JULY

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|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
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| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W |

Q. 1) $3895 - 1926 \rightarrow 1969$

2) $96247 - 28519 \rightarrow 67728$

3) $42562374 - 28370768 \rightarrow 1419606$ ✓

4) $842591233742 - 178545872759 \rightarrow 664045360983$

5) $732658347 - 528929416 \rightarrow 203728931$

6) $903654 - 587146 \rightarrow 316508$

14) $859157324 - 608519062 \rightarrow 250638262$

THURSDAY 195-170

Addition :-

* Type - I : Round-off Addition

$$\left(\frac{\cancel{3}9\cancel{7}}{400} + \frac{\cancel{4}0\cancel{5}}{400} + \frac{\cancel{5}0\cancel{1}}{500} + \frac{\cancel{6}0\cancel{3}}{600} \right) \times 11$$

$1900 + 6 = 1906$

1906 $\times 11 \rightarrow 20966 @$

JULY '22

AUGUST

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|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
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| 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | | | | | | | | |

M T W T F S S M T W T F S S M T W T F S S

15

FRIDAY

196-169 • Wk-29

9 Q. 1) $(297 + 303 + 705 + 401) \times 9999$

10

11 $\Rightarrow 1700 + 6 \Rightarrow 1706 \times 9999$

12

1 $\Rightarrow 17058294$

2

3

4 * Type - II : Pair-wise Addition

$$\begin{array}{cccc} & & + & \\ 157 & + & 135 & + 43 + 65 \\ & & \swarrow & \searrow \\ & & + & \end{array}$$

$\Rightarrow 200 + 200 = 400$

16

9

10 Q. $(279 + 434 + 721 + 596) \times 11$

197-168 SATURDAY

11

12 $\Rightarrow (1000 + 1030) \times 11$

1

2 $\Rightarrow 2030 \times 11$

3

4 $\Rightarrow 22000 \ 22330$

5

SUNDAY 17

* Type - III : Place-wise Addition

$\begin{array}{r} 709 + 996 @ \\ \boxed{\quad} \quad \boxed{\quad} \\ \Rightarrow 1600 + 90 + 15 \\ \Rightarrow 1705 \end{array}$

18

MONDAY

Wk-30 • 199-166

JULY

| | | | | | | | | | | | | | | | | | | | | | | | | |
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| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | M | T | W | F | S | S | M | T | W | F | S |

JULY '22

Q 1) $3713 + 213 + 57 + 3$

→ $\begin{array}{r} \underline{4000} + \underline{200} + \underline{50} + 3 \\ -287 \quad +13 \quad +7 \end{array}$

→ 3986

2) $(21721 + 31511 + 71201 + 30211)$

→ 154644

19

TUESDAY

200-165

19

TUESDAY

24 | 01 | 23.

#

200-165

Addition Type - IV : Addition of 10 consecutive natural numbers :

$$\text{Ex: } 11 + 12 + 13 + \dots + 19 + 20$$

$$[\text{First term} + 4] \times \text{unit place digit}$$

$$\nexists 155$$

$$\text{Ex: } 234 + 235 + 236 + \dots + 243$$

$$\nexists 2385$$



@

JULY '22

AUGUST

| | | | | | | | | | | | | | | | | | | | | |
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20

WEDNESDAY

201-164 • Wk-30

9) Q 1) $(3333 + 3334 + \dots + 3342) \times 9999$

10

11) $\Rightarrow 33375 \times 9999$

12) $\Rightarrow 333716625$

1

2) $(325 + 326 + \dots + 384) \times 9999$

3) $\Rightarrow 3295 \times 9999$

4) $\Rightarrow 32946705$

5

6) $(43423 + 43424 + \dots + 43432) \times 11$

7) $\Rightarrow 43427 \times 999 \times 11$

$\Rightarrow 477697$

* Type - II : Sum of A.P. Series :

21

10) $a + (a+d) + (a+2d) + \dots$ upto n^{th} term THURSDAY

12) $S_n = \frac{n}{2} [a + l]$ $l = a_n = a + (n-1)d$

OR

4) $S_n = \frac{n}{2} [a + a + (n-1)d]$

6)
$$\boxed{S_n = \frac{n}{2} (2a + (n-1)d)}$$

@



22

FRIDAY

Wk-30 • 203-162

JULY

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| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | |
| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T |

Q. $[55 + 61 + 67 + \dots + 100 \text{ terms}] \times 99999$

$$a = 55, d = 6$$

$$S_n = \frac{n}{2} [2a + (n-1)d]$$

$$= 50 (110 + 99 \times 6)$$

$$= 50 (110 + 594)$$

$$= 35200$$

23

$$\Rightarrow 35200 \times 99999$$

$$=$$

SATURDAY

204-161

Q.

$$715 + 719 + 723 + \dots + 795$$

$$a_n = 795$$

$$715 + (n-1)4 = 795$$

24 SUNDAY

$$(n-1)4 = 80$$



@

$$n = 21$$

$$S_{21} \Rightarrow \frac{21}{2} (1430 + 80) \Rightarrow \frac{21}{2} \times 1510 \\ \Rightarrow 15855$$

The foolish man seeks happiness in the distance, the wise grows it under his feet.

JULY '22

AUGUST

| | | | | | | | | | | | | | | | | | | | | |
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| 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | | | | | | | | |
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25

MONDAY

206-159 • Wk-31

* Type - VI : Sum of GP series

$a + ar + ar^2 + \dots$ upto n^{th} term

$$S_n = \frac{a(r^n - 1)}{r - 1} \quad |r| > 1$$

or

$$S_n = \frac{a(1 - r^n)}{1 - r} \quad |r| < 1$$

$n \rightarrow \infty$

$$S_n = \frac{a}{1 - r} \quad |r| < 1$$

26

TUESDAY

207-158

Q. 1) $2 + 4 + 6 + \dots$ upto 10th term

$\Rightarrow a = 2, n = 10, d = 2$

$$S_n = \frac{n}{2} [2a + (n-1)d]$$

$$= 5 (4 + 9 \times 2)$$

$$= 5 (22)$$

$$= 110$$

@

27

WEDNESDAY

JULY

| | | | | | | | | | | | | | |
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| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
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Wk-31 • 208-157

2) $1 + \frac{1}{2} + \frac{1}{4} + \dots$ upto 10th term

$$\Rightarrow a = 1, r = \frac{1}{2}, n = 10$$

$$S_n = \frac{(a - ar^n)}{1 - r}$$

$$= \frac{1 - \left(\frac{1}{2}\right)^{10}}{1 - \frac{1}{2}}$$

$$\Rightarrow \frac{1 - \frac{1}{1024}}{\frac{1}{2}}$$

$$\Rightarrow \frac{1023}{512}$$

28

THURSDAY 209-156

3) $1 + \frac{1}{3} + \frac{1}{9} + \dots \infty$

$$a = 1, r = \frac{1}{3}, n \rightarrow \infty$$

$$S_n = \frac{a}{1 - r}$$

$$\Rightarrow \frac{1}{1 - \frac{1}{3}}$$

$$= \frac{3}{2}$$

 The happiness of your life depends on the quality of your thoughts.

JULY '22

AUGUST

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29

FRIDAY

210-155 • Wk-31

* Type - VII : Addition of same numbers multiple times

Eg : $5 + 55 + 555 + 5555$

$$5 \times (1234)$$

$$\Rightarrow \frac{10}{2} \times 1234$$

$$\Rightarrow 6170$$

Eg : $2 + 22 + 222 + 2222 + 22222 + 222222$

$$\Rightarrow 2(123456)$$

$$\Rightarrow 246912$$

30

211-154 SATURDAY

Q. 1) $3 + 33 + 333 + 3333 + 33333$

$$\Rightarrow 3(12345)$$

$$\Rightarrow 37035$$

SUNDAY 31

2) $4 + 444 + 4444 \quad \Rightarrow 4 + 44 + 444 + 4444 - 44$

$$\Rightarrow 4(1234) \quad @ 9 \times$$

$$\Rightarrow 4(1234) - 44$$

01

MONDAY

Wk-32 • 213-152

AUGUST

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| 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | | | | | | | | | | | |
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AUGUST '22

$$\text{Ex: } 0.2 + 0.22 + 0.222 + 0.2222$$

$$\Rightarrow 2(4321)$$

$$\Rightarrow 0.8642 \quad (\text{max. decimal count})$$

$$\underline{\text{Q. 1})} \quad 0.3 + 0.33 + 0.333 + 0.3333 + 0.33333$$

$$\Rightarrow 3(54321)$$

$$\Rightarrow 162963 \quad \Rightarrow 1.62963$$

02

TUESDAY

$$2) \quad 5.5 + 0.55 + 0.555 + 0.5555 + 0.55555$$

$$\Rightarrow 5.5 + 0.5 + 0.55 + 0.555 + 0.5555 + 0.55555 - 0.5$$

$$\Rightarrow 5(54321) + 5$$

$$\Rightarrow \cancel{\frac{10}{2}} 2.71605 + 5$$

$$\Rightarrow 7.71605$$

@

AUGUST '22

SEPTEMBER

| | | | | | | | | | | | | | | | | | | | |
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03

WEDNESDAY

215-150 • Wk-32

FRACTIONS

* Case - I : when the denominators are co-prime.

$$\ell(a, b) = 1$$

Ex: $\frac{2}{7} + \frac{1}{3}$

$$\Rightarrow \frac{6+7}{7 \times 3} \Rightarrow \frac{13}{21}$$

Q. 1) $\frac{4}{9} + \frac{2}{11} \Rightarrow \frac{62}{99}$

04

2) $\frac{9}{11} - \frac{2}{3} \Rightarrow \frac{5}{33}$

216-149 THURSDAY

3) $\frac{2}{5} + \frac{3}{7} + \frac{3}{8} \Rightarrow \frac{31}{40} + \frac{3}{7} \Rightarrow \frac{337}{280}$

4) $\frac{8}{9} - \frac{2}{7} + \frac{9}{13} \Rightarrow \frac{38}{63} + \frac{9}{13} \Rightarrow \frac{1061}{819}$



@

05

FRIDAY

~~25/01/23~~

Wk-32 • 217-148

AUGUST

| | | | | | | | | | | | | | | | | | | |
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* Case - II : when the denominator has a common factor

$$\frac{7}{12} + \frac{5}{18} \Rightarrow 12 \times 3 \text{ or } 36$$

$\cancel{6 \times 2} \quad \cancel{6 \times 3}$

$$\Rightarrow \frac{21 + 10}{36} = \frac{31}{36}$$

Q. 1) $\frac{5}{18} - \frac{1}{27} \Rightarrow \frac{45 - 6}{162} \Rightarrow \frac{13}{54}$

$\frac{5}{18} \quad \frac{1}{27}$
 $3 \times 6 \quad 3 \times 9$

06

SATURDAY

2) $\frac{4}{35} + \frac{3}{14} \Rightarrow \frac{8 + 15}{70} \Rightarrow \frac{23}{70}$

$\frac{4}{35} \quad \frac{3}{14}$
 $7 \times 5 \quad 7 \times 2$

3) $\frac{7}{12} - \frac{1}{30} \Rightarrow \frac{35 - 2}{60} \Rightarrow \frac{11}{20}$

$\frac{7}{12} \quad \frac{1}{30}$
 $6 \times 2 \quad 6 \times 5$

07 SUNDAY

$$4\frac{1}{2} + 3\frac{7}{9}$$

$$\Rightarrow \frac{9}{2} + \frac{34}{9}$$

$$\Rightarrow \frac{149}{18} \Rightarrow 8\frac{5}{18} @$$

AUGUST '22

SEPTEMBER

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

M T W T F S S M T W T F S S M T W T F S S

08

MONDAY

220-145 • Wk-33

9
10
Q 1)

$$4\frac{1}{3} + 2\frac{3}{5}$$

11
12
⇒ $\frac{13}{3} + \frac{13}{5}$

1
2
⇒ $\frac{65 + 39}{15}$

3
4
⇒ $\frac{104}{15}$

5
6
7
⇒ $6\frac{14}{15}$

Now with Vedic Maths ?

09

TUESDAY

221-144

9
10
Q. $4\frac{1}{3} + 2\frac{3}{5}$

11
12
⇒ $(4 + \frac{1}{3}) + (2 + \frac{3}{5})$

1
2
⇒ $6 + (\frac{1}{3} + \frac{3}{5})$

3
4
⇒ $6 + (\frac{5+9}{15})$

5
6
⇒ $6 + \frac{14}{15}$

7
⇒ $6\frac{14}{15}$ Ans.



10

WEDNESDAY

Wk-33 • 222-143

AUGUST

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AUGUST 2023

$$\underline{Q.} \quad 4\frac{1}{2} + 3\frac{7}{9}$$

$$\rightarrow 7 + \left(\frac{9+14}{18} \right)$$

$$\rightarrow 7 + \frac{23}{18}$$

$$\rightarrow 7 + \frac{(18+5)}{18}$$

$$\rightarrow 7 + 1 + \frac{5}{18}$$

$$\rightarrow 8 + \frac{5}{18} = 8\frac{5}{18}$$

11

THURSDAY 223-142

$$\underline{Q.} \quad 1) \quad 2\frac{3}{5} - 1\frac{1}{2}$$

$$\rightarrow 1 \left(\frac{3}{5} - \frac{1}{2} \right)$$

$$\rightarrow 1\frac{1}{10}$$

$$2) \quad 2\frac{1}{3} + 1\frac{1}{5}$$

$$\rightarrow 3 \left(\frac{1}{3} + \frac{1}{5} \right)$$

$$\rightarrow 3\frac{8}{15}$$

@

Choosing a goal and sticking to it changes everything.

12

FRIDAY

224-141 • Wk-33

AUGUST '22

SEPTEMBER

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9) $3) 7\frac{1}{3} - 2\frac{1}{4}$

10)
11) $\Rightarrow 5\frac{1}{12}$

1) $4) 5\frac{2}{5} - 2\frac{3}{7}$

2)
3)
4) $\Rightarrow -3\frac{1}{35} \times \Rightarrow 3 + \left(-\frac{1}{35}\right) \Rightarrow 2 + 1 + \left(-\frac{1}{35}\right)$

5)
6) $\Rightarrow 2\frac{34}{35} \checkmark \text{Ans.}$

7) $5) 4\frac{1}{2} + 3\frac{1}{9}$

8) $\Rightarrow 7 + \frac{23}{18}$

9) $\Rightarrow 8\frac{5}{18}$

13

225-140 SATURDAY

10)
11)
12) $6) 7\frac{1}{3} - 2\frac{1}{4}$

13) $\Rightarrow 5\frac{1}{12}$

14)
15)
16) $7) 6\frac{1}{5} - 7\frac{1}{3} \Rightarrow -1 + \left(\frac{1}{5} \cancel{-} \frac{1}{3}\right)$

SUNDAY 14

$\Rightarrow -1\frac{2}{15}$

$\Rightarrow -1\left(-\frac{2}{15}\right) \Rightarrow -\left(1 + \frac{2}{15}\right)$

17) $8) 4\frac{1}{4} - \frac{4}{21} \Rightarrow @4 + \frac{1}{4} - \frac{4}{21}$

$\Rightarrow 4 + \frac{5}{84} \Rightarrow 4\frac{5}{84}$

15

MONDAY

Wk-34 • 227-138

AUGUST

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AUGUST

$$9) 2\frac{1}{2} + 3\frac{1}{3} + 5\frac{1}{5}$$

$$\Rightarrow 10 + \frac{31}{30}$$

$$\Rightarrow 11\frac{1}{30}$$

$\frac{12}{7} < \frac{9}{11}$ ✓
 $\frac{22}{7} < \frac{63}{11}$

16 Q. Arrange in A.O. :

TUESDAY

$$228-17) \frac{7}{8}, \frac{2}{3}, \frac{5}{6}$$

$$\Rightarrow \frac{2}{3} < \frac{7}{8} < \frac{5}{6}$$

~~D.O.~~ 2) $\frac{1}{3}, \frac{2}{7}, \frac{4}{9} \Rightarrow$

@

AUGUST '22

SEPTEMBER

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17

WEDNESDAY

229-136 • Wk-34

9 * Digit Root / Digit sum :
1011 Digit sum of a number is obtained by adding
12 all the digits in a number until we get a single
1 digit.
23 → D.S. of a number is always from 1-9 &
4 never 0.
56 Ex : 6438912576415 → 7 (cancel out all
7 the nos. whose sum
is 9 or is a 9.)
89 Note : All 9's or groups of digits in a number
10 that add upto 9 can be cancelled out
11 from the number and remaining digits can
12 be added to get digit sum of that no.
13

18

THURSDAY

1 Q. 1) 9/3/1/8/7/2 → 0 + 9 → 9
2

3 2) 249/623/814/5 → 8
4

5 3) 8/6/3/1/4/5/1/2/7/3/6 → 1
6

7 4) 9/3/8/5/2/1/8/7/8/1 → 4
8

9 5) 6/3/8/9/2/2/2/9/0/8/5/1 → 1
10

11 6) 4/2/7/4/6/3/1/8/3/4/2/9/8/0/1 → 5
12

23

MONDAY

Wk-22 • 143-222

~~31/01/23~~

MAY

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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 | 31 |
| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | |

Q. 728329 + 369476 = 1087795 [T/F]

$$\begin{array}{r}
 4 & + & 8 & \cancel{+} & 12 \\
 & & & \downarrow & \\
 & & & 3 & \\
 \end{array}
 \qquad
 \begin{array}{r}
 & & 19 & \cancel{+} & 1 \\
 & & & \curvearrowleft & \\
 & & & 3 & \\
 \end{array}$$

LHS ≠ RHS

∴ False

Q. 1) 428 + 786 = 1164

$$\begin{array}{r}
 5 & & 7 & & 3 \\
 & \downarrow & & & \\
 & 3 & & & \\
 \end{array}$$

LHS = RHS

∴ True

24

TUESDAY

144-221

2) 297 + 384 = 681

$$\begin{array}{r}
 9 & & 6 \\
 & \downarrow & & 6 \\
 & 6 & & \\
 \end{array}$$

LHS = RHS

∴ True

but, $297 + 384 = 681$

@

∴ its true a/c to
digit sum method
only.



MAY '22

JUNE

| | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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 | | | | | | | | |
| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | S |

25

WEDNESDAY

145-220 • Wk-22

Q. 1) $\begin{array}{r} 428 \\ - 342 \\ \hline 5 \end{array} - 9 = 1$ (digit sum is never negative
 $-4+9 \not\rightarrow 5+1 \therefore \text{False}$

2) $\begin{array}{r} 3485 \\ - 2896 \\ \hline 2 \end{array} - 8 = 3$ $-6+9 \not\rightarrow 3 = 3 \therefore \text{True}$

3) $312 \times 24 = 7488$

$$\begin{array}{r} 6 \times 6 \\ 36 \end{array} \quad \begin{array}{r} 9 \\ 9 \end{array}$$

 $9 = 9 \therefore \text{True}$

26

4) $81623 \div 752 = Q:11, R = 751$ 146-219 THURSDAY
 $2 \div 5$ [T/F]

Now, Dividend = Divisor \times Quotient + R

$$\begin{array}{r} 81623 \\ \hline 2 \end{array} = \begin{array}{r} 752 \\ \hline 5 \end{array} \times 11 + \begin{array}{r} 751 \\ \hline 4 \end{array}$$

$2 \neq 5 \therefore \text{False}$

@

27

FRIDAY

Wk-22 • 147-218

MAY

| | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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 |
| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M |

MAY '22

Q. Verifying the divisibility of the following no. by 9
 3 & 9.

1) 42183 → Yes

2) 2715 → By 3 & not by 9

3) 3916 → None

4) 80133 → By 3 only

5) 943056 → By both

28

SATURDAY

Verify whether the following answers are correct or not using digit sum.

1) $2372 + 5384 = 7756$ → True

2) $45382 - 29635 = 15247$ → False

3) $3892 \times 1629 = 6341068$ → False

29 SUNDAY

4) $56381 - 48962 = 7419$ → True

5) $\underline{37625} + \underline{24839} @ + \underline{65431} = 127895$
 \downarrow
 $5 + 8 + 1 + 5$ → True

If life were measured by accomplishments, most of us would die in infancy.

MAY '22

JUNE

| | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|
| 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 | (9) | | | | | | | |
| M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F |

30

MONDAY

150-215 • Wk-23

9) $(78)^2 = 6084 \rightarrow \text{True}$

11) $(53)^2 = 2809 \rightarrow \text{False}$

1) $2\sqrt{386} \times 0\sqrt{342} = 0\sqrt{816012}$
1 \times 9 = 9 $\rightarrow \text{True}$

4) $243658 \div 294 = Q: 838, R: 226$

$243658 = 294 \times 838 + 226$

$$\begin{array}{r} 1 \neq 6 \times 1 + 1 \\ \therefore \text{False} \end{array}$$

9) $73421 \div 3 = Q: 24473, R: 2$

151-214

31

TUESDAY

$73421 = 3 \times 24473 + 2$

8 = 3 \times 2 + 2 True

Note \rightarrow If the digit sum are matching, it does not give a 100% assurance that the no. is correct (the chances are very low), but if digit sum are not matching, that assures that definitely the answer is incorrect.



@