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MAY

Tuesday

# MULTIPLICATION OF NUMBERS

1) Number close to 100.

$$\begin{array}{r} 101 \\ \times 111 \\ \hline \end{array} \begin{array}{l} (+1) \\ (+11) \end{array}$$

$$\begin{array}{r} (101+11) \times 100 \\ + (11 \times 1) \end{array}$$

$$\begin{array}{r} \Rightarrow 11200 \\ + 11 \\ \hline 11211 \end{array}$$

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Wednesday

Study: 1) 101 is 1 more than 100. So, (+1)

111 is 11 more than 100. So (+11)

2) ~~101 is 1 more than 100~~ ~~111 is 11 more than 100~~

2) Add (101+11) OR Add (111+1)

3) Since we are using 100 as the base, multiply it with 100.

APR  
2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						

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h) Finally add (11 x 1) to the answer

$$\begin{array}{r} 94 \\ \times 98 \\ \hline \end{array} \begin{array}{l} (-6) \\ (-2) \end{array}$$

$$\begin{array}{r} (94-2) \times 100 \\ + (-6) \times (-2) \end{array}$$

$$\begin{array}{r} = 9200 \\ + 12 \\ \hline 9212 \end{array}$$

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Friday

2) Number close to 200

$$\begin{array}{r} 202 \\ \times 205 \\ \hline \end{array} \begin{array}{l} (+2) \\ (+5) \end{array}$$

$$\begin{array}{r} (202+5) \times 200 \\ + (+2) \times (+5) \end{array}$$

$$\begin{array}{r} = 41400 \\ + 10 \\ \hline 41410 \end{array}$$

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3) Number close to 300

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$$\begin{aligned} & a) \quad \begin{array}{r} 303 \\ \times 306 \\ \hline \end{array} \begin{array}{l} (+3) \\ (+6) \end{array} \\ & \quad \quad \quad (303+6) \times 300 \\ & + (3 \times 6) \end{aligned}$$

$$= 309 \times 300$$

$$+ \quad \begin{array}{r} 18 \\ \hline \end{array}$$

$$14 = 92700$$

Sunday

$$+ \quad \begin{array}{r} 18 \\ \hline 92718 \end{array}$$

4) Number close to 50

$$a) \quad \begin{array}{r} 52 \\ \times 56 \\ \hline \end{array} \begin{array}{l} (+2) \\ (+6) \end{array}$$

$$(52+6) \div 2 \times 100$$

$$+ (2 \times 6)$$

$$= 2900 \Rightarrow 2912$$

APR 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
.	.	.	.	.	1	2	3	4	5	6	7	8	9
16	17	18	19	20	21	22	23	24	25	26	27	28	29
.	.	.	.	.	.	.	.	.	.	.	.	.	.

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2017 5) Multiplication of 2-digit number

$$a) \quad (53 \times 47)$$

$$= 53$$

$$(5 \times 4) \quad (5 \times 7 + 4 \times 3) \quad (7 \times 3)$$

$$= 20 \mid 47 \mid 21$$

$$= 2491$$

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Steps: 1) Multiplication of

element in column 2.

2) Cross multiplication

of elements

3) Multiplication of

element in column 1.

FOR EG:

column 1  $\rightarrow$  Row 1

column 2  $\rightarrow$  Row 2.

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$$\begin{array}{r} 46 \\ \times 26 \\ \hline \end{array}$$

$$\begin{array}{r} (4 \times 2) (4 \times 6 + (6 \times 6) \\ 2 \times 6 \\ \hline \end{array}$$

$$8 / 36 / 36$$

$$\Rightarrow 1196$$

2017

2017

Step 1) Multiplication of elements in Column 3.

2) cross multiplication of elements in Column 2 & Column 3

Column 3

3) cross multiplication of elements in Column 1 & Column 3

Column 2

4) cross multiplication of elements in Column 1 and Column 2

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5) Multiplication of elements in Column 1.

6) If required, use the carry-forward technique.

Row 1	1	1	2
Row 2	2	2	3

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Thursday

$$\begin{array}{r} a) \quad 112 \\ \times 223 \\ \hline \end{array}$$

$$\begin{array}{r} (1 \times 2) (1 \times 2) \quad (1 \times 3) \quad (1 \times 3) \quad (2 \times 3) \\ \begin{array}{r} + \\ 1 \times 2 \\ \hline 2 \times 2 \\ + \\ 2 \times 1 \end{array} \quad \begin{array}{r} + \\ 1 \times 3 \\ \hline 2 \times 2 \\ + \\ 2 \times 1 \end{array} \quad \begin{array}{r} + \\ 1 \times 3 \\ \hline 2 \times 2 \\ + \\ 2 \times 1 \end{array} \quad \begin{array}{r} + \\ 2 \times 3 \\ \hline 2 \times 1 \end{array} \end{array}$$

$$\begin{array}{r} 2 / 4 / 9 / 7 / 6 \\ = 24976 \end{array}$$

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Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

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Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
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$(\text{A} + \text{B} + \text{C})$   
 $(\text{A} + \text{B}) + \text{C}$   
 $\text{A} + (\text{B} + \text{C})$   
 $(\text{A} + \text{B}) + \text{C}$   
 $\text{A} + (\text{B} + \text{C})$

## Monday

[illegible]

$$\Rightarrow 10 \mid 48 \mid 92 \mid 100 \mid 105 \mid 78 \mid 45$$

5831325

APR 2017		Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
-	-	-	-	-	1	2	3	4	5	6	7	8	9	10	11
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	-

2017  
Step 1: 1) Multiplication of  
in the molecule.

- 2) Multiplication of element in column 3 of column 4 row 3 multiply
- 3) row multiplication of element in column 2 of column 4 multiply element in column 3 of column 3

- 5) Cross  
Elements in Column 19 Column 24  
49 Column 29 Column 31  
Wednesday

- 5) cross multiply elements in column 1 & column 3 & then multiply elements in column 2
- 6) cross multiply elements in column 1 & column 2
- 7) multiply elements in column 1, column 1 & column 2 & column 3

Row 1	8	6	3	9
Row 2	0	6	7	5

8	0	7	5
6	6	3	9

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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	-	-	-	-	-	-	-	-

**JUN  
2017**

1) The middle of number

$$\begin{array}{r} 807 \\ 8 \times 9 \overline{) 908} \end{array}$$

$$\begin{array}{r} 72 \overline{) 127} \end{array}$$

1st, make for you  
use 2-digit

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Friday

$$\begin{array}{r} 732756 \end{array}$$

- 1) Column the multiplication
- 2) Cross multiplication
- 3) Column 1 multiplication

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Saturday

1) Multiplication of number with two zeros in the middle.

$$\begin{array}{r} 9008 \\ 16006 \overline{) 1976} \end{array}$$

$$54 \overline{) 10248}$$

1st, make for you  
use two digit.

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Sunday

$$\begin{array}{r} 54102048 \end{array}$$

- 1) Column multiplication
- 2) Cross multiply the elements of column
- 3) Column 1 multiplication

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Multiplication of number with three zeros in them in the middle.

$$\begin{array}{r} .70007 \\ 150009 \\ \hline (4 \times 15) \quad (4 \times 9) \quad (7 \times 9) \\ \quad \quad \quad 15007 \end{array}$$

$$60/141/63$$

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Tuesday

Here, multiplication with digit

$$\text{So, } 6001410063$$

- Steps:
- 1) Column 6 multiplication
  - 2) Column 2 & Column 6 cross multiplication
  - 3) Column 1, 2 multiplication

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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	-	-	-	-	-	-	-

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Multiplication by diagram

$$729 \times 827$$

It is a  $(3 \times 3)$  table.

7	5	6	8	2	7
2	1	6	1	4	9
9	7	2	1	8	3

$$5/8/21/17/18/3$$

$$\Rightarrow 602883$$

Steps: 1) Link 729 vertically, 827 horizontally

2) Since there are 3 digits max. in one number, it is a  $(3 \times 3)$  table.

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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	-	-	-	-	-	-	-