

August

Date / /

6 - MULTIPLICATION

599

Exercise 6(A)

Multiply the following in your notebook

(a) 64×45

Th	H	T	O
		①	
		②	
		6	4
	x	4	5
		3	2
		2	5
		6	+
		2	8
		8	0

(b) 58×72

Th	H	T	O
		⑤	
		①	
		5	8
	x	7	2
		1	1
		4	0
		6	+
		4	1
		7	6

(c) 49×36

Th	H	T	O
		②	
		⑤	
		4	9

			X	36
			①	
			2	94

			1	47
			+	

			1,7	64

(d) 82×27

Th	H	T	O
----	---	---	---

		①	
		8	2

			X	27
			①	
			5	74

			1	64
			+	

			2,2	14

(e) 94×89

Th	H	T	O
		③	
		③	
		9	4

			X	89

			①	
			8	46

			7	52
			+	

			8,3	66

$$(f) \quad 634 \times 92$$

T-Th H T O

$$\begin{array}{r} \textcircled{3} \quad \textcircled{3} \\ 6 \quad 3 \quad 4 \\ \times \quad 9 \quad 2 \\ \hline \textcircled{1} \\ 1 \quad 2 \quad 6 \quad 8 \end{array}$$

$$\begin{array}{r} 5 \quad 7 \quad 0 \quad 6 \quad + \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 8, \quad 3 \quad 2 \quad 8 \\ \hline \end{array}$$

$$(g) \quad 734 \times 58$$

T-Th Th H T O

$$\begin{array}{r} \textcircled{2} \quad \textcircled{2} \\ \textcircled{4} \quad \textcircled{3} \\ 7 \quad 5 \quad 4 \\ \times \quad 5 \quad 8 \\ \hline \textcircled{1} \quad 6 \quad 0 \quad 3 \quad 2 \\ 3 \quad 7 \quad 1 \quad 0 \quad + \\ \hline 4 \quad 3, \quad 7 \quad 3 \quad 2 \\ \hline \end{array}$$

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(maths)

(h) 643×23

T-Th Th H T O

$$\begin{array}{r}
 \textcircled{1} \\
 \begin{array}{r}
 643 \\
 \times 23 \\
 \hline
 1929 \\
 1286 + \\
 \hline
 14789
 \end{array}
 \end{array}$$

(i) 682×76

T-Th Th H T O

$$\begin{array}{r}
 \textcircled{5} \quad \textcircled{1} \\
 \textcircled{4} \quad \textcircled{0} \\
 \begin{array}{r}
 682 \\
 \times 76 \\
 \hline
 4092 \\
 4774 + \\
 \hline
 51832
 \end{array}
 \end{array}$$

(j) 921×74

T-Th Th H T O

$$\begin{array}{r}
 \textcircled{1} \\
 921 \\
 \times 74 \\
 \hline
 \textcircled{1} 3684 \\
 6447 \\
 \hline
 68154
 \end{array}$$

(k) 392×54

T-Th Th H T O

$$\begin{array}{r}
 \textcircled{1} \\
 392 \\
 \times 54 \\
 \hline
 \textcircled{1} 1568 \\
 1960 \\
 \hline
 21168
 \end{array}$$

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(1) 493×42

T-Th Th H T O

$$\begin{array}{r}
 \textcircled{2} \\
 \textcircled{1} \quad \textcircled{1} \\
 493 \\
 \times 42 \\
 \hline
 986 \\
 1972 + \\
 \hline
 20706
 \end{array}$$

Date _____ Exercise (B)

1. Multiply each given number by 10

(a) 408

Solⁿ

Th H T O OR

$$\begin{array}{r} 408 \\ \times 10 \\ \hline 4080 \end{array}$$

$$\begin{array}{r} 408 \times 10 \\ \hline 4080 \end{array}$$

(b) 128

Solⁿ

$$128 \times 10 = 1,280$$

(c) 89

Solⁿ

$$89 \times 10 = 890$$

(d) 930

Solⁿ

$$930 \times 10 = 9,300$$

(e) 1898

Solⁿ

$$1898 \times 10 = 18,980$$

(f) 2493

Sol $2493 \times 10 = 24,930$

(g) 56095

Sol $56095 \times 10 = 5,60,950$

(h) 78220

Sol $78220 \times 10 = 7,82,200$

(2) Multiply each given number by 100

(a) 47

Sol $47 \times 100 = 4,700$

(b) 708

Sol $708 \times 100 = 70,800$

(c) 568

Sol $568 \times 100 = 56,800$

(d) 7540

Sol $7540 \times 100 = 7,54,000$

(e) 8922

Sol $8922 \times 100 = 8,92,200$

(f) 63091

Sol $63091 \times 100 = 6,30,900$

(g) 98201

Sol $98201 \times 100 = 9,82,0100$

(h) 99999

Sol $99999 \times 100 = 99,99,900$

(3) Multiply the given numbers by 1000

(a) 64

Sol $64 \times 1000 = 64,000$

(b) 2310

Sol $2310 \times 1000 = 23,10,000$

(c) 464

Sol $464 \times 1000 = 4,64,000$

(d) 625

Sol $625 \times 1000 = 6,25,000$

(e) 4001

Sol $4001 \times 1000 = 40,01,000$

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(f) 4001

Sol $4001 \times 1000 = 4,001,000$

(g) 8349

Sol $8349 \times 1000 = 8,349,000$

(h) 5466

Sol $5466 \times 1000 = 5,466,000$

(4) Multiply :

(a) $28 \times 100 = 2,800$

(b) $243 \times 10 = 2,430$

(c) $1720 \times 100 = 1,72,000$

(d) $8401 \times 10 = 84,010$

(e) $403 \times 1000 = 4,03,000$

(f) $893 \times 1000 = 8,93,000$

(g) $55 \times 1000 = 55,000$

(h) $4005 \times 1000 = 4,005,000$

Exercise 6(c)

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Exercise

Multiply the following :

(a) $4,142 \times 16$

$$\begin{array}{r}
 \textcircled{2} \textcircled{1} \\
 4,142 \\
 \times 16 \\
 \hline
 \textcircled{1} \\
 24852 \\
 4142+ \\
 \hline
 66,272
 \end{array}$$

(b) $8,148 \times 19$

$$\begin{array}{r}
 \textcircled{1} \textcircled{4} \textcircled{9} \\
 8148 \\
 \times 19 \\
 \hline
 73332 \\
 8148+ \\
 \hline
 1,54812
 \end{array}$$

(c) $3,163 \times 98$

$$\begin{array}{r}
 \textcircled{1} \textcircled{9} \textcircled{2} \\
 \textcircled{1} \textcircled{9} \textcircled{2} \\
 3163 \\
 \times 98 \\
 \hline
 125304 \\
 28467+ \\
 \hline
 3,09974
 \end{array}$$

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(writing)

(d) $9,076 \times 63$

$$\begin{array}{r} \textcircled{4} \textcircled{3} \\ \textcircled{2} \textcircled{1} \\ 9076 \end{array}$$

$$\begin{array}{r} \textcircled{1} \quad \times 63 \\ \hline 27228 \end{array}$$

$$\begin{array}{r} 54456 + \\ \hline \end{array}$$

$$\begin{array}{r} 5,71,788 \\ \hline \end{array}$$

(e) $7,805 \times 82$

$$\begin{array}{r} \textcircled{6} \textcircled{4} \\ \textcircled{1} \textcircled{1} \\ 7,805 \end{array}$$

$$\begin{array}{r} \textcircled{1} \textcircled{1} \quad \times 82 \\ \hline 15610 \end{array}$$

$$\begin{array}{r} 62440 + \\ \hline \end{array}$$

$$\begin{array}{r} 6,40,010 \\ \hline \end{array}$$

(f) $67,368 \times 12$

$$\begin{array}{r} \textcircled{8} \textcircled{4} \textcircled{7} \textcircled{5} \\ 67368 \end{array}$$

$$\begin{array}{r} \quad \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 8,08,376 \\ \hline \end{array}$$

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(g) $50,515 \times 29$

$$\begin{array}{r}
 \textcircled{0} \textcircled{0} \textcircled{0} \\
 50515 \\
 \times 29 \\
 \hline
 454635 \\
 101030+ \\
 \hline
 14,64935
 \end{array}$$

(h) $31,789 \times 59$

$$\begin{array}{r}
 \textcircled{3} \textcircled{4} \textcircled{4} \\
 \textcircled{1} \textcircled{7} \textcircled{8} \textcircled{9} \\
 31789 \\
 \times 59 \\
 \hline
 286101 \\
 158945+ \\
 \hline
 18,75,551
 \end{array}$$

(i) $89,022 \times 43$

$$\begin{array}{r}
 \textcircled{8} \\
 \textcircled{9} \\
 89022 \\
 \times 43 \\
 \hline
 267066 \\
 356088+ \\
 \hline
 38,27,946
 \end{array}$$

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Saathi

(j)

$$29,885 \times 99$$

⑧⑦⑦④

29885

①①①① $\times 99$
268965

268965 +

29,58,615

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Exercise 6(D)

Solve

1. Multiply.

(a) Four hundred ninety six by two hundred sixty two.

Solⁿ

$$\begin{array}{r}
 \textcircled{1} \textcircled{6} \textcircled{1} \\
 496 \\
 \times 262 \\
 \hline
 992 \\
 \textcircled{1} \textcircled{1} \\
 2976+ \\
 992++ \\
 \hline
 1,29,952
 \end{array}$$

(b) Seven thousand eighteen by one hundred twenty.

Solⁿ

$$\begin{array}{r}
 \textcircled{1} \\
 7018 \\
 \times 120 \\
 \hline
 \textcircled{1} 0000 \\
 14036+ \\
 7018++ \\
 \hline
 8,42,160
 \end{array}$$

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Carroll

(c) Nine thousand two hundred fifty five by three hundred ten.

Solⁿ

$$\begin{array}{r}
 \textcircled{3} \textcircled{1} \\
 9 \ 2 \ 5 \ 5 \\
 \times \ 3 \ 1 \ 0 \\
 \hline
 \textcircled{1} \ 0 \ 0 \ 0 \\
 \textcircled{1} \ 9 \ 2 \ 5 \ 5 \ + \\
 2 \ 7 \ 9 \ 6 \ 5 \ + \ + \\
 \hline
 2 \ 8, \ 8 \ 9, \ 0 \ 5 \ 0
 \end{array}$$

(d) Eight hundred twenty five by four hundred eighty six,

Solⁿ

$$\begin{array}{r}
 \textcircled{1} \textcircled{2} \textcircled{3} \textcircled{2} \textcircled{3} \\
 8 \ 2 \ 5 \\
 \times \ 4 \ 8 \ 6 \\
 \hline
 \textcircled{1} \ 5 \ 1 \ 5 \ 0 \\
 \textcircled{1} \ 6 \ 6 \ 0 \ 0 \ + \\
 3 \ 3 \ 0 \ 0 \ + \ + \\
 \hline
 4 \ 0 \ 1 \ 1 \ 5 \ 0
 \end{array}$$

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(c) Seventy thousand five hundred
by one hundred eighteen.

Solⁿ

$$\begin{array}{r} \textcircled{4} \textcircled{1} \textcircled{1} \\ 70,516 \\ \times 118 \\ \hline \textcircled{1} \textcircled{1} \\ 564128 \\ \textcircled{1} \quad 70516 + \\ 70516 + + \\ \hline 8320888 \end{array}$$

(2) Find the product :

(a) 729×341

$$\begin{array}{r} \textcircled{1} \textcircled{2} \textcircled{3} \\ 729 \\ \times 341 \\ \hline \textcircled{1} \textcircled{1} \quad 729 \\ 2916 + \\ 2187 + + \\ \hline 248589 \end{array}$$

(b) 565×525

$$\begin{array}{r}
 \textcircled{1} \quad \textcircled{1} \\
 \textcircled{5} \quad \textcircled{2} \\
 565 \\
 \times 525 \\
 \hline
 2825 \\
 1130+ \\
 2825++ \\
 \hline
 2,96,625
 \end{array}$$

(c) 902×436

$$\begin{array}{r}
 \textcircled{1} \\
 902 \\
 \times 436 \\
 \hline
 \textcircled{1} 5412 \\
 \textcircled{1} 2706+ \\
 3608++ \\
 \hline
 3,93,272
 \end{array}$$

(d) 783×298

$$\begin{array}{r}
 \textcircled{1} \quad \textcircled{2} \\
 \textcircled{7} \quad \textcircled{2} \\
 \textcircled{8} \quad \textcircled{9} \\
 783 \\
 \times 298 \\
 \hline
 \textcircled{1} \textcircled{1} 6264 \\
 \textcircled{1} 7047+ \\
 1566++ \\
 \hline
 2,33,334
 \end{array}$$

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(e) 524×421

$$\begin{array}{r}
 \textcircled{1} \\
 524 \\
 \times 421 \\
 \hline
 \textcircled{1} \\
 524 \\
 \textcircled{1} \textcircled{1} \\
 1048 + \\
 2096 + + \\
 \hline
 \underline{2,20,604}
 \end{array}$$

(f) $9,307 \times 678$

$$\begin{array}{r}
 \textcircled{2} \quad \textcircled{4} \\
 \textcircled{2} \quad \textcircled{5} \\
 9307 \\
 \times 678 \\
 \hline
 \textcircled{1} \\
 74456 \\
 65149 + \\
 \hline
 \underline{7,25,946}
 \end{array}$$

(g) $2,892 \times 209$

$$\begin{array}{r}
 \textcircled{1} \textcircled{1} \\
 \textcircled{8} \textcircled{8} \textcircled{1} \\
 2892 \\
 \times 209 \\
 \hline
 \textcircled{1} \\
 26028 \\
 0000 + \\
 5784 + + \\
 \hline
 \underline{6,04,428}
 \end{array}$$

Date ___/___/___

Gaathi

(h) $8,098 \times 789$

⑥ ⑥
 ⑦ ⑥
 ⑧ ⑦
 8 0 9 8

① X 7 8 9
 ② ①
 ① ② 7 2 8 8 2
 6 4 7 7 8 4 +
 5 6 6 8 6 + +
1,22,19,322

(i) $5,793 \times 423$

③ ③
 ① ①
 ② ② ①
 5 7 9 3

X 4 2 3
 ② ① ①
 1 7 3 7 9
 1 1 5 8 6 +
 2 3 1 7 2 + +
24,50,439

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599

(j)

$$6,974 \times 542$$

$$\begin{array}{r} \textcircled{4} \quad \textcircled{3} \\ \textcircled{3} \quad \textcircled{2} \quad \textcircled{2} \\ \textcircled{1} \quad \textcircled{1} \quad \textcircled{1} \\ 6 \quad 9 \quad 7 \quad 4 \end{array}$$

$$\begin{array}{r} \textcircled{+} \quad \textcircled{+} \quad \textcircled{+} \\ \textcircled{1} \quad 1 \quad 3 \quad 9 \quad 4 \quad 8 \\ 2 \quad 7 \quad 8 \quad 9 \quad 6 \quad + \end{array}$$

$$3 \quad 4 \quad 8 \quad 7 \quad 0 \quad + \quad +$$

$$\underline{37,79,908}$$

(k)

$$63,174 \times 109$$

$$\begin{array}{r} \textcircled{2} \quad \textcircled{0} \quad \textcircled{6} \\ 6 \quad 3 \quad 1 \quad 7 \end{array}$$

$$\begin{array}{r} \times \quad 1 \quad 0 \quad 9 \\ \textcircled{1} \\ 5 \quad 6 \quad 8 \quad 5 \quad 3 \end{array}$$

$$0 \quad 0 \quad 0 \quad 0 \quad +$$

$$6 \quad 3 \quad 1 \quad 7 \quad + \quad +$$

$$\underline{6,88,553}$$

(l) $31,489 \times 213$

$$\begin{array}{r}
 \textcircled{1} \textcircled{1} \\
 \textcircled{1} \textcircled{2} \textcircled{2} \\
 31489 \\
 \times 213 \\
 \hline
 \textcircled{1} \textcircled{2} \textcircled{1} \\
 94467 \\
 \textcircled{2} \quad 31489+ \\
 62978++ \\
 \hline
 67,07,157
 \end{array}$$

(m) $27,899 \times 326$

$$\begin{array}{r}
 \textcircled{2} \textcircled{1} \textcircled{1} \textcircled{1} \\
 \textcircled{1} \textcircled{1} \textcircled{1} \textcircled{1} \\
 \textcircled{4} \textcircled{5} \textcircled{5} \textcircled{5} \\
 27899 \\
 \times 326 \\
 \hline
 \textcircled{2} \textcircled{2} \textcircled{2} \textcircled{1} \\
 167394 \\
 \textcircled{1} \quad 55798+ \\
 82198++ \\
 \hline
 70,05,174
 \end{array}$$

(n) $51,623 \times 163$

$$\begin{array}{r}
 \textcircled{3} \\
 \textcircled{1} \textcircled{1} \textcircled{1} \\
 51,623 \\
 \times 163 \\
 \hline
 \textcircled{2} \textcircled{1} \textcircled{1} \textcircled{1} \\
 154869 \\
 \textcircled{1} \quad 3099738+ \\
 51623++ \\
 \hline
 3,63,4549
 \end{array}$$

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Exercise 6E

50.00

1. The cost of a toaster is ₹1,750. A shopkeeper bought 50 toasters for selling. How much did he pay for 50 toasters?

Sol

$$\begin{array}{r}
 \textcircled{1} \textcircled{2} \\
 \text{₹} 1,750 \times 50 \\
 \hline
 0000 \\
 8750+ \\
 \hline
 \text{₹} 87,500
 \end{array}$$

The shopkeeper paid ₹87,500 for 50 toasters.

2. A man bought 120 bags of apples. Each bag contains 2,121 apples. How many apples are there in all?

Sol

$$\begin{array}{r}
 2121 \\
 \times 120 \\
 \hline
 0000 \\
 4242+ \\
 2121++ \\
 \hline
 2,54,520
 \end{array}$$

2,54,520 apples are there in all.

3. A shopkeeper sells 16,520 packets of milk. Each packet contains costs ₹ 25. How much money did he get at the end?

$$\begin{array}{r} \textcircled{1} \textcircled{2} \textcircled{1} \\ \textcircled{3} \textcircled{5} \textcircled{1} \\ 16,520 \end{array}$$

$$\times 25$$

$$\textcircled{1} 82600$$

$$33040 +$$

$$\underline{\underline{₹ 4,13,000}}$$

The shopkeeper gets ₹ 4,13,000 at the end.

4. Mohan distributed toffees on his birthday. There are 8,552 students and 25 teachers whom he distributed 4 toffees each. How many toffees did he distribute?

Solⁿ

$$8552$$

$$+ 25$$

$$\underline{\underline{8577}}$$

$$\textcircled{2} \textcircled{3} \textcircled{2}$$

$$8577$$

$$\times 4$$

$$\underline{\underline{34308}}$$

Mohan distributed 34,308 toffees

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5. A Society has 19 floors. If there are 32,701 people on each floor how many people are there in the society?

Soln

$$\begin{array}{r}
 \textcircled{2} \textcircled{6} \\
 32701 \\
 \textcircled{1} \textcircled{1} \times 19 \\
 \hline
 294309 \\
 32701+ \\
 \hline
 6,21,319
 \end{array}$$

6,21,319 people are there in the society.

6. A train has 18 compartments and each compartment consists of 3,178 passengers at peak hours. How many passengers travel in the train during peak hours.

Soln

$$\begin{array}{r}
 \textcircled{1} \textcircled{6} \textcircled{6} \\
 3178 \\
 \textcircled{3} \times 18 \\
 \hline
 25224 \\
 3178+ \\
 \hline
 57,204
 \end{array}$$

57,204 Passengers travel in train during Peak hours.

7. In a park there are 31,250 flower plants and 78,178 trees in a row. Calculate the total number of trees and flower plants in 15 such rows.

Soln

$$\begin{array}{r}
 \textcircled{1} \\
 31250 \\
 + 78178 \\
 \hline
 1,09,428
 \end{array}$$

$$\begin{array}{r}
 \textcircled{4}\textcircled{2} \quad \textcircled{1}\textcircled{4} \\
 1,09,428 \\
 \times 15 \\
 \hline
 \textcircled{1}\textcircled{1} \quad \textcircled{1} \\
 547140 \\
 109428+ \\
 \hline
 16,41,420
 \end{array}$$

There are 16,41,420 number of trees and flower plants in 15 such rows.

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8. What will be the cost of 25 cars if one car costs ₹3,24,230?

Soln

$$\begin{array}{r}
 \textcircled{1} \textcircled{2} \textcircled{1} \textcircled{1} \\
 3 \ 2 \ 4 \ 2 \ 3 \ 0 \\
 \times 2 \ 5 \\
 \hline
 1 \ 6 \ 2 \ 1 \ 1 \ 5 \ 0 \\
 6 \ 4 \ 8 \ 4 \ 6 \ 0 \ + \\
 \hline
 8 \ 1 \ 0 \ 5 \ 7 \ 5 \ 0
 \end{array}$$

The cost of 25 cars is ₹81,05,750.

9. A man has 10 notes of ₹2000 and 19 notes of ₹500. How much money did he have?

Soln

$$\begin{array}{r}
 2 \ 0 \ 0 \ 0 \\
 \times 1 \ 0 \\
 \hline
 2 \ 0 \ 0 \ 0 \ 0
 \end{array}
 \qquad
 \begin{array}{r}
 5 \ 0 \ 0 \\
 \times 1 \ 9 \\
 \hline
 9 \ 5 \ 0 \ 0
 \end{array}$$

$$\begin{array}{r}
 \text{Total money} = ₹ \ 20,000 \\
 + ₹ \ 9,500 \\
 \hline
 ₹ \ 29,500
 \end{array}$$

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(Saurhil)

10. A factory produces 3,500 boxes a day. How many boxes will be produced in the months of March and April (March = 31 days, April = 30 days)

Sol Boxes produced in = $\overset{\textcircled{1}}{3500}$
march month $\times 31$

$$\begin{array}{r} 3500 \\ 10500+ \\ \hline 108500 \end{array}$$

Boxes produced in = $\overset{\textcircled{1}}{3500}$
April month $\times 30$

$$\begin{array}{r} 0000 \\ 10500+ \\ \hline 105000 \end{array}$$

Total = $\overset{\textcircled{1}}{1,08,500}$
 $+ 1,05,000$
 $\underline{2,13,500}$ boxes.