

Exercise - 4

Add

1. (a) $456456 + 367890$

$$\begin{array}{r} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \\ 456456 \\ + 367890 \\ \hline 824346 \end{array}$$

(b) $1234567 + 8907865$

$$\begin{array}{r} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \\ 1234567 \\ + 8907865 \\ \hline 10142432 \end{array}$$

(c) $77889908 + 7543217 + 85685685$

$$\begin{array}{r} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \\ 77889908 \\ + 7543217 \\ + 85685685 \\ \hline 171118810 \end{array}$$

(d) $4488997 + 3322115 + 5544332$

$$\begin{array}{r} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \\ 4488997 \\ + 3322115 \\ + 5544332 \\ \hline 13355444 \end{array}$$

2. (a) 11889966

$$\begin{array}{r} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \\ 11889966 \\ + 5566787 \\ + 95087654 \\ + 32100645 \\ \hline 144645052 \end{array}$$

(b) 7788665

$$\begin{array}{r} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \\ 7788665 \\ + 2223334 \\ + 5567890 \\ + 6565656 \\ \hline 22145545 \end{array}$$

3. (a) 654365 and 567567

$$\begin{array}{r} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \\ 654365 \\ + 567567 \\ \hline 1221932 \end{array}$$

(b) 8989898 and 9999999

$$\begin{array}{r} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \textcircled{+} \\ 8989898 \\ + 9999999 \\ \hline 18989897 \end{array}$$

3. (c) 4 44 333, 5 56 606 and 7 77 888

$$\begin{array}{r} \textcircled{+1} \textcircled{+1} \textcircled{+1} \textcircled{+1} \\ 4 \ 44 \ 333 \\ + 5 \ 56 \ 606 \\ + 7 \ 77 \ 888 \\ \hline 17 \ 78 \ 827 \end{array}$$

(d) 12 12 121, 23 23 232 and 34 34 346

$$\begin{array}{r} 12 \ 12 \ 121 \\ + 23 \ 23 \ 232 \\ + 34 \ 34 \ 346 \\ \hline 69 \ 69 \ 699 \end{array}$$

4. (a)

$$\begin{array}{r} \textcircled{+1} \textcircled{+1} \textcircled{+2} \textcircled{+1} \\ 253 \underline{8} \ 9 \\ + 17 \ 4 \ 3 \ 2 \\ + 41 \underline{7} \ 8 \ 7 \\ \hline \underline{84608} \end{array}$$

① $(1+x+3+8)-20$
 $x = 20 - 12 = 8$

③ $(1+5+x+1) = 14$
 $x = 14 - 7 = 7$

④ $(2+3+4+x) = 16$
 $x = 16 - 9 = 7$

(b)

$$\begin{array}{r} \textcircled{+3} \textcircled{+1} \textcircled{+1} \textcircled{+2} \textcircled{+1} \\ 2 \ 5 \ 7 \ 4 \ 2 \\ + 1 \ 4 \ 9 \ 3 \ 2 \ 1 \\ + 6 \ 5 \ 4 \ 3 \ 6 \ 5 \\ + 1 \ 5 \ 0 \ 3 \ 7 \ 5 \\ \hline 9 \ 7 \ 9 \ 8 \ 0 \ 3 \end{array}$$

① $(2+1+5+x) = 13$
 $x = 13 - 8 = 5$

④ $(1+2+4+x+5) = 17$
 $x = 17 - 12 = 5$

⑤ $(2+x+3+3+3) = 18$
 $x = 18 - 11 = 7$

⑤ $(1+1+6+x) = 9$
 $x = 9 - 8 = 1$

⑥ $(1+5+x+4) = 19$
 $x = 19 - 10 = 9$

(c)

$$\begin{array}{r} \textcircled{+1} \textcircled{+2} \textcircled{+3} \textcircled{+4} \textcircled{+1} \\ 5 \ 2 \ 6 \ 7 \\ + 7 \ 8 \ 7 \ 5 \ 9 \\ + 7 \ 3 \ 9 \ 4 \ 2 \\ + 1 \ 2 \ 6 \ 6 \ 4 \ 1 \\ \hline \underline{284609} \end{array}$$

① $(1+6+5+4+x) = 20$
 $x = 20 - 16 = 4$

② $(2+x+7+2) = 18$
 $x = 18 - 11 = 7$

③ $(2+2+7+x+6) = 16$
 $x = 16 - 17 = 9$

④ $(1+x+8+3+6) = 24$
 $x = 24 - 19 = 5$

Subtract:

5. (a) 780605 - 391236

$$\begin{array}{r} \textcircled{7} \textcircled{8} \textcircled{0} \textcircled{6} \textcircled{0} \textcircled{5} \\ 780605 \\ - 391236 \\ \hline 389369 \end{array}$$

(b) 4321657 - 1432987

$$\begin{array}{r} \textcircled{4} \textcircled{3} \textcircled{2} \textcircled{1} \textcircled{6} \textcircled{5} \textcircled{7} \\ 4321657 \\ - 1432987 \\ \hline 2888670 \end{array}$$

5. (c) $65656565 - 16768687$

$$\begin{array}{r} \textcircled{5} \textcircled{4} \textcircled{5} \textcircled{4} \textcircled{5} \textcircled{4} \textcircled{5} \textcircled{4} \\ 65656565 \\ - 16768687 \\ \hline 48887878 \end{array}$$

(d) $3322117 - 2424248$

$$\begin{array}{r} \textcircled{2} \textcircled{11} \textcircled{11} \textcircled{11} \textcircled{10} \textcircled{10} \textcircled{17} \\ 3322117 \\ - 2424248 \\ \hline \cancel{0}897869 \end{array}$$

(e) $7895432 - 1689654$

$$\begin{array}{r} \textcircled{8} \textcircled{14} \textcircled{13} \textcircled{11} \textcircled{12} \\ 7895432 \\ - 1689654 \\ \hline 6205778 \end{array}$$

(f) $10060708 - 1278909$

$$\begin{array}{r} \textcircled{6} \textcircled{9} \textcircled{9} \textcircled{15} \textcircled{9} \textcircled{16} \textcircled{9} \textcircled{13} \\ 10060708 \\ - 1278909 \\ \hline \cancel{0}8781799 \end{array}$$

6. (a) Eighty-two lakh, forty thousand, four hundred and six from ninety-seven lakh.

$$\begin{array}{r} \textcircled{2} \textcircled{9} \textcircled{9} \textcircled{9} \textcircled{9} \textcircled{10} \\ \del{8240406} \quad 9700000 \\ - 8240406 \\ \hline 1459594 \end{array}$$

(b) Seven lakh, fifty-four thousand and seventy from one crore

$$\begin{array}{r} \textcircled{6} \textcircled{9} \textcircled{9} \textcircled{9} \textcircled{9} \textcircled{10} \\ 10000000 \\ - 754070 \\ \hline \cancel{0}9245930 \end{array}$$

7. (a) $66452 - 5817$

$$\begin{array}{r} \textcircled{6} \textcircled{14} \textcircled{4} \textcircled{10} \\ 66452 \\ - 5817 \\ \hline \underline{6} \underline{0} \underline{6} \underline{3} \underline{5} \end{array}$$

(b) $655670 - 265428$

$$\begin{array}{r} \textcircled{5} \textcircled{15} \quad \textcircled{6} \textcircled{10} \\ 655670 \\ - 265428 \\ \hline 390242 \end{array}$$

(c) $450678 - 412379$

$$\begin{array}{r} \textcircled{4} \textcircled{10} \textcircled{5} \textcircled{16} \textcircled{18} \\ 450678 \\ - 412379 \\ \hline 38299 \end{array}$$

$$\begin{aligned}
 8. \quad (a) \quad & 656666 + 432141 - 765432 \\
 & = 1088807 - 765432 \\
 & = 323375
 \end{aligned}$$

$$\begin{array}{r}
 \textcircled{1} \quad \textcircled{1} \\
 656666 \\
 + 432141 \\
 \hline
 1088807 \\
 \textcircled{2} \textcircled{10} \quad \textcircled{7} \textcircled{10} \\
 1088807 \\
 - 765432 \\
 \hline
 \cancel{3}23375
 \end{array}$$

$$\begin{aligned}
 (b) \quad & 7899876 - 5898999 + 3213213 \\
 & = 2000877 + 3213213 \\
 & = 5214090
 \end{aligned}$$

$$\begin{array}{r}
 \textcircled{8} \textcircled{17} \textcircled{16} \textcircled{16} \\
 7899876 \\
 - 5898999 \\
 \hline
 2000877
 \end{array}$$

$$\begin{array}{r}
 \textcircled{1} \quad \textcircled{1} \\
 2000877 \\
 + 3213213 \\
 \hline
 5214090
 \end{array}$$

$$(c) \quad 52345678 - 43216789 + 56565656$$

$$= 9128889 + 56565656$$

$$= 65694545$$

$$\begin{array}{r}
 \textcircled{9} \textcircled{12} \quad \textcircled{3} \textcircled{14} \textcircled{5} \textcircled{16} \textcircled{18} \\
 52345678 \\
 - 43216789 \\
 \hline
 \cancel{9}128889
 \end{array}$$

$$\begin{array}{r}
 \textcircled{1} \quad \textcircled{1} \textcircled{1} \textcircled{1} \textcircled{1} \\
 56565656
 \end{array}$$

$$\begin{array}{r}
 + 9128889 \\
 \hline
 65694545
 \end{array}$$

$$(d) \quad 96596596 - 56432107 - 12340087$$

$$= 40164489 - 12340087$$

$$= 27824402$$

$$\begin{array}{r}
 \textcircled{9} \textcircled{16} \\
 96596596 \\
 - 56432107 \\
 \hline
 40164489
 \end{array}$$

$$\begin{array}{r}
 \textcircled{3} \textcircled{9} \textcircled{11} \\
 40164489
 \end{array}$$

$$\begin{array}{r}
 - 12340087 \\
 \hline
 27824402
 \end{array}$$