

MATHS CLASS III

“ADDITION”

PROPERTIES OF ADDITION

➤ Order of addends

✚ Changing the order of two addends does not change the sum.

✚ Example:

$$3891 + \underline{7369} = \underline{11260}$$

$$\underline{7369} + 3891 = \underline{11260}$$

➤ Group property

✚ When three or more numbers are added the total remains the same.

✚ The numbers can be grouped in any order in addition.

✚ Example:

$$(\underline{9298 + 6481}) + 2223 = 9298 + (\underline{6481 + 2223}) = \underline{18,002}$$

$$5083 + (3124 + 4274) = (5083 + 3124) + 4274 = \underline{12,481}$$

Q1. Fill in the blanks:

a) $2143 + (6363 + 4323) = (\underline{\hspace{2cm}} + 2143) + 4323$

b) $(10859 + \underline{\hspace{2cm}}) + 5281 = (5281 + 10859) + 5631$

c) $5083 + (3124 + 7427) = (7427 + \underline{\hspace{2cm}}) + 3124$

d) $(9284 + 6415) + 2234 = (6415 + 2234) + \underline{\hspace{2cm}}$

EASY ADDING:

➤ Adding 10

✚ When we add 10 to a number, the digit at tens place increases by 1.

✚ Example:

$$48\underline{5}2 + 10 = 48\underline{6}2$$

$$82\textcolor{teal}{6}0 + 10 = 82\textcolor{teal}{7}0$$

➤ **Adding 100**

✚ When we add 100 to a number, the digit at hundreds place increases by 1.

✚ Example:

$$\textcolor{teal}{5}693 + 100 = 5\textcolor{teal}{7}93$$

$$\textcolor{teal}{7}382 + 100 = 7\textcolor{teal}{4}82$$

➤ **Adding 1000**

✚ When we add 1000 to a number, the digit at thousands place increases by 1.

✚ Example:

$$\textcolor{teal}{6}493 + 1000 = \textcolor{teal}{7}493$$

$$\textcolor{teal}{5}127 + 1000 = \textcolor{teal}{6}127$$

➤ **Multiples of 10, 100, 1000 can also be added similarly.**

✚ Example:

$$\textcolor{teal}{2}341 + \textcolor{teal}{2}0 = 23\textcolor{teal}{6}1$$

$$\textcolor{teal}{2}341 + \textcolor{teal}{2}00 = 2\textcolor{teal}{5}41$$

$$\textcolor{teal}{2}341 + \textcolor{teal}{4}00 = 2\textcolor{teal}{7}41$$

$$\textcolor{teal}{2}341 + \textcolor{teal}{3}000 = \textcolor{teal}{5}341$$

Q2. Add:

a) $5413 + 100 =$ _____

b) $3124 + 10 =$ _____

c) $2349 + 1000 =$ _____

d) $4040 + 30 =$ _____

e) $4138 + 200 =$ _____

f) $5394 + 4000 =$ _____