

01

The digit sum of 31 is $3 + 1 = 4$. Write all the two digit numbers. Whose digital sum is 8.



$8 = 1 + 7$ so the numbers are 17 and 71

$8 = 2 + 6$ so the numbers are 26 and 62

$8 = 3 + 5$ so the numbers are 35 and 53

$8 = 4 + 4$ so the numbers is 44

So the numbers whose digital sum is 8 are :

17, 71, 26, 62, 35, 53, 44

02

Esha printed 257 bookmarks on Wednesday. She printed 79 fewer bookmarks on Thursday than on Wednesday. How many bookmarks did Esha print on Thursday ?



Wednesday

257

Thursday

?

79

$$257 - 79 = 178$$

Esha printed 178 bookmarks on Thursday

03

A Tik-tok clock chimed once at 1 O'clock, twice at 2 O'clock, thrice at 3 O'clock..... How many times would it have chimed by 6 O'clock ?



at

1 O'clock → 1 time,

2 O'clock → 2 time,

3 O'clock → 3 time,

4 O'clock → 4 time,

5 O'clock → 5 time,

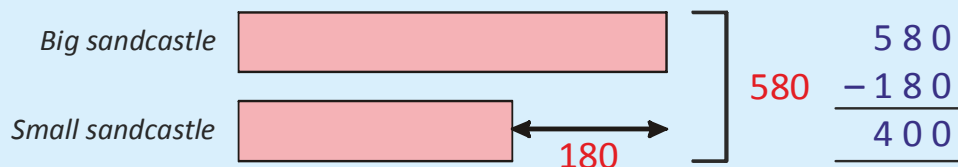
6 O'clock → 6 time

Number of times the clock chimed by 6 O'clock

$$= 1 + 2 + 3 + 4 + 5 + 6 = 21 \text{ times}$$

04

580 pails of sand are needed to make a big sandcastle and a small sandcastle. The small sandcastle uses 180 fewer pails of sand than the big sandcastle. How many pails of sand are needed to make the big sandcastle ?



Number of pails for small sandcastle = $400 \div 2 = 200$

Number of pails for big sandcastle = $200 + 180 = 380$


380 pails of sand are needed to make the big sandcastle

05

It is given that  =  +  +  +  and

$$\text{} + \text{} + \text{} + \text{} = 110$$



(a) What does  represent ?


(b) Find the value of  - .

a) Since  =  +  +  +  ;

$$\text{} + \text{} + \text{} + \text{} = 110 \text{ can be restarted as}$$

$$\text{} + \text{} + \text{} + \text{} + \text{} + \text{} + \text{} + \text{} + \text{} + \text{} = 110$$

$$\text{Hence } \text{} = 110 \div 10 = 11; \text{} = 11 \times 4 = 44$$

 represents 44

$$\text{b) } \text{} - \text{} = 44 - 11$$

$$= 33$$

$$\text{The value of } \text{} - \text{} = 33$$

06

Complete the following by filling the boxes with the correct digits. Observe the signs carefully.

$$\begin{array}{r} 3 \ 1 \ 2 \\ + \ 1 \ 9 \ \square \\ \hline \square \ 0 \ 8 \end{array}$$

A

$$\begin{array}{r} 7 \ \square \ 3 \\ - \ \ \ 7 \ \square \\ \hline \square \ 2 \ 3 \end{array}$$

B

$$\begin{array}{r} 4 \ 4 \ 7 \\ + \ \square \ \square \ 2 \\ \hline 9 \ 6 \ \square \end{array}$$

C

$$\begin{array}{r} 9 \ \square \ \square \\ - \ \ \ 9 \ 9 \\ \hline \square \ 0 \ 1 \end{array}$$

D

A)

$$\begin{array}{r} 3 \ 1 \ 2 \\ + \ 1 \ 9 \ \square \\ \hline \square \ 0 \ 8 \end{array} \longrightarrow \begin{array}{r} 3 \ 1 \ 2 \\ + \ 1 \ 9 \ \square \\ \hline 5 \ 0 \ 8 \end{array}$$

B)

$$\begin{array}{r} 7 \ \square \ 3 \\ - \ \ \ 7 \ \square \\ \hline \square \ 2 \ 3 \end{array} \longrightarrow \begin{array}{r} 7 \ 9 \ 3 \\ - \ \ \ 7 \ \square \\ \hline \square \ 2 \ 3 \end{array} \longrightarrow \begin{array}{r} 7 \ 9 \ 3 \\ - \ \ \ 7 \ 0 \\ \hline 7 \ 2 \ 3 \end{array}$$

C)

$$\begin{array}{r} 4 \ 4 \ 7 \\ + \ \square \ \square \ 2 \\ \hline 9 \ 6 \ \square \end{array} \longrightarrow \begin{array}{r} 4 \ 4 \ 7 \\ + \ \square \ 2 \ 2 \\ \hline 9 \ 6 \ \square \end{array} \longrightarrow \begin{array}{r} 4 \ 4 \ 7 \\ + \ 5 \ 2 \ 2 \\ \hline 9 \ 6 \ 9 \end{array}$$

D) If A = 9, after 1 ten is converted to ones, there will only be 8 tens left. So A has to be 0.

$$\begin{array}{r} \ 9 \ \overset{1}{\square} \ 0 \\ - \ \ \ 9 \ 9 \\ \hline \square \ 0 \ 1 \end{array} \longrightarrow \begin{array}{r} \ 9 \ \overset{1}{\cancel{9}} \ 0 \\ - \ \ \ 9 \ 9 \\ \hline 8 \ 0 \ 1 \end{array}$$