

SATISH CHANDRA MEMORIAL SCHOOL

CLASS:3 SUBJECT: MATHEMATICS

CH9: HOW MANY TIMES? (WS 37)

A) SOLVE BY EXPANDED FORM MULTIPLICATION

1) 234×2

A) 1) Process 1		Process 2																
$234 \rightarrow 200 + 30 + 4$		$234 \rightarrow (200 + 30 + 4)$																
2	<table border="1"> <tr> <td>200</td> <td>30</td> <td>4</td> </tr> <tr> <td>200×2</td> <td>30×2</td> <td>4×2</td> </tr> <tr> <td>400</td> <td>60</td> <td>8</td> </tr> </table>	200	30	4	200×2	30×2	4×2	400	60	8	$\times 2$	<table> <tr> <td>400</td> <td>($200 \times 2 = 400$)</td> </tr> <tr> <td>+ 60</td> <td>($30 \times 2 = 60$)</td> </tr> <tr> <td>8</td> <td>($4 \times 2 = 8$)</td> </tr> </table>	400	($200 \times 2 = 400$)	+ 60	($30 \times 2 = 60$)	8	($4 \times 2 = 8$)
200	30	4																
200×2	30×2	4×2																
400	60	8																
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+ 60	($30 \times 2 = 60$)																	
8	($4 \times 2 = 8$)																	
	<table> <tr> <td>400</td> </tr> <tr> <td>+ 60</td> </tr> <tr> <td>8</td> </tr> </table>	400	+ 60	8		Ans) 468												
400																		
+ 60																		
8																		
	Ans $234 \times 2 = 468$																	

2) 900×4

A) 2) Process 1		Process 2																
$900 \rightarrow 900 + 0 + 0$		$900 \rightarrow (900 + 0 + 0)$																
4	<table border="1"> <tr> <td>900</td> <td>0</td> <td>0</td> </tr> <tr> <td>900×4</td> <td>0×4</td> <td>0×4</td> </tr> <tr> <td>3600</td> <td>0</td> <td>0</td> </tr> </table>	900	0	0	900×4	0×4	0×4	3600	0	0	$\times 4$	<table> <tr> <td>3600</td> <td>($900 \times 4 = 3600$)</td> </tr> <tr> <td>0</td> <td>($0 \times 4 = 0$)</td> </tr> <tr> <td>+ 0</td> <td>($0 \times 4 = 0$)</td> </tr> </table>	3600	($900 \times 4 = 3600$)	0	($0 \times 4 = 0$)	+ 0	($0 \times 4 = 0$)
900	0	0																
900×4	0×4	0×4																
3600	0	0																
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+ 0	($0 \times 4 = 0$)																	
	<table> <tr> <td>3600</td> </tr> <tr> <td>0</td> </tr> <tr> <td>+ 0</td> </tr> </table>	3600	0	+ 0		Ans) 3600												
3600																		
0																		
+ 0																		
	Ans) $900 \times 4 = 3600$																	

B) ARRANGE IN COLUMNS AND MULTIPLY:

1) 789×23

2) 612×57

B) 1) 789×23	2) 612×57																
<table> <tr> <td>789</td> <td>$\times 23$</td> </tr> <tr> <td>1578</td> <td></td> </tr> <tr> <td>15780</td> <td></td> </tr> <tr> <td>18147</td> <td></td> </tr> </table>	789	$\times 23$	1578		15780		18147		<table> <tr> <td>612</td> <td>$\times 57$</td> </tr> <tr> <td>4284</td> <td></td> </tr> <tr> <td>30600</td> <td></td> </tr> <tr> <td>34884</td> <td></td> </tr> </table>	612	$\times 57$	4284		30600		34884	
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C) SOLVE:

1)



Do you know this leggy fellow?
This is an octopus.
It lives in the sea.
It also has 8 legs.

So how many legs altogether do 5 octopuses have?

$$\underline{8} + \underline{8} + \underline{8} + \underline{8} + \underline{8} = \underline{40}$$

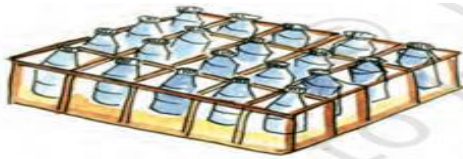
or 5 times

$$\underline{8} \times \underline{5} = \underline{40}$$



Give me your hand, hand, hand,

2)



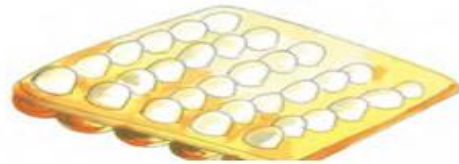
In the same way, how many bottles are these?

$$\underline{5} \text{ times } \underline{4} = \underline{20} \text{ bottles}$$

3)

How many eggs?

$$\underline{5} \text{ times } \underline{6} = \underline{30} \text{ eggs}$$



4) $3 \times 20 = 3 \text{ TIMES } 20 = 20+20+20$

5) $4 \times 18 = 4 \text{ TIMES } 18 = 18+18+18+18$

6) $10+10+10+10 = 4 \times 10 = 40$

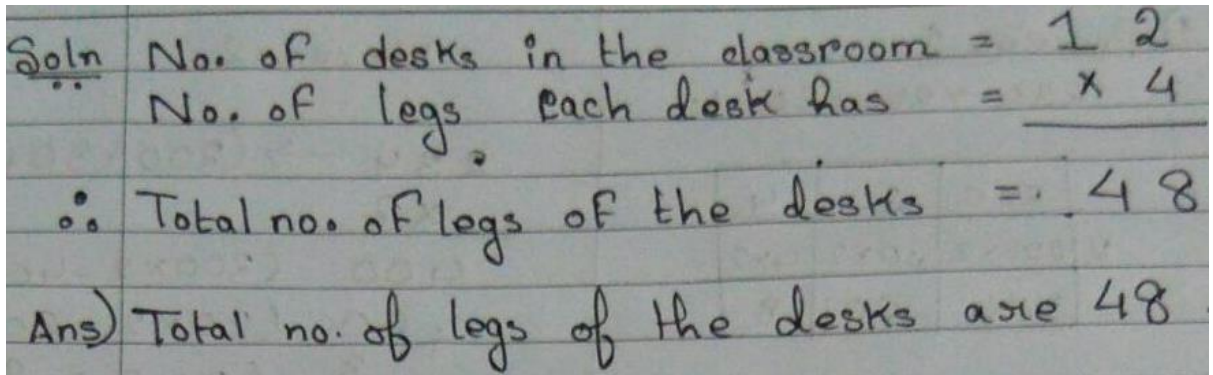
7) $30+30+30 = 3 \times 30 = 90$

CH9: HOW MANY TIMES?

WORD PROBLEMS [DATE: 3.6.21]

1)

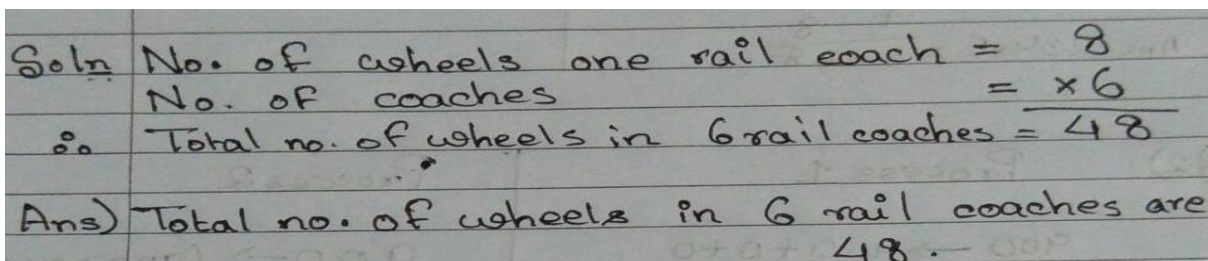
There are 12 desks in a classroom.
Each desk has 4 legs. What is the total
number of legs of the desks?



Soln No. of desks in the classroom = 12
No. of legs each desk has = 4
∴ Total no. of legs of the desks = 48
Ans) Total no. of legs of the desks are 48

2)

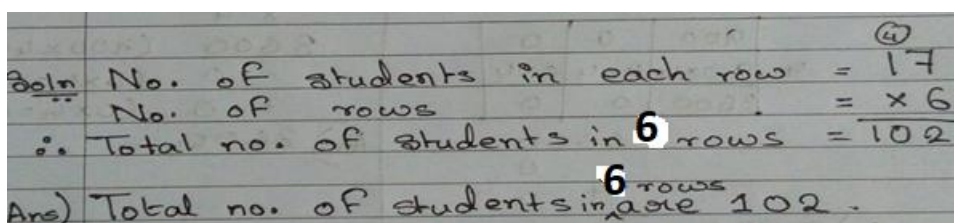
One rail coach has 8 wheels. How
many wheels in all in 6 coaches?



Soln No. of wheels one rail coach = 8
No. of coaches = 6
∴ Total no. of wheels in 6 rail coaches = 48
Ans) Total no. of wheels in 6 rail coaches are 48.

3)

Students stand in rows in the
assembly. There are six rows of
students. Each row has 17
students. How many students
are there?



Soln No. of students in each row = 17
No. of rows = 6
∴ Total no. of students in 6 rows = 102
Ans) Total no. of students in 6 rows are 102.

4)

A box contains 6 apples. How many apples in all will seven boxes have?

Soln	No. of apples in one box	= 6
	No. of boxes	= <u>$\times 7$</u>
\therefore	Total no. of apples in 7 boxes	= 42
Ans)	Total no. of apples in 7 boxes are 42	