

Unit 4 : Multiplying and Dividing by 6, 7, 8, and 9

Friendly Notes

Multiplying and Dividing by 6

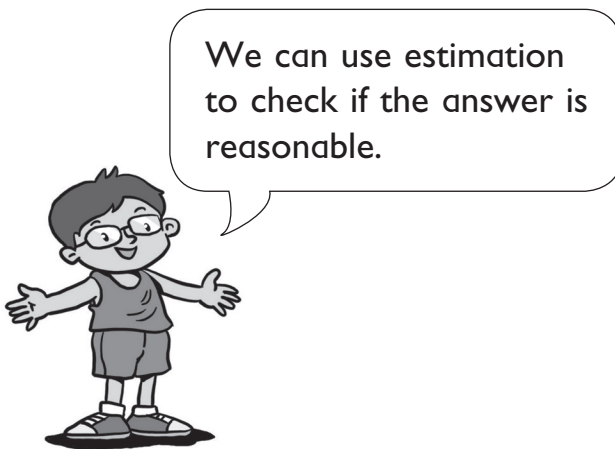
Remembering the multiplication table of 6 shown below helps us to multiply and divide by 6 easily.

$1 \times 6 = 6$ $6 \div 6 = 1$	
$2 \times 6 = 12$ $12 \div 6 = 2$	
$3 \times 6 = 18$ $18 \div 6 = 3$	
$4 \times 6 = 24$ $24 \div 6 = 4$	
$5 \times 6 = 30$ $30 \div 6 = 5$	
$6 \times 6 = 36$ $36 \div 6 = 6$	
$7 \times 6 = 42$ $42 \div 6 = 7$	
$8 \times 6 = 48$ $48 \div 6 = 8$	
$9 \times 6 = 54$ $54 \div 6 = 9$	
$10 \times 6 = 60$ $60 \div 6 = 10$	

1. Multiply 532 by 6.

	Multiply the ones by 6.	Multiply the tens by 6.	Multiply the hundreds by 6.
$\begin{array}{r} 532 \\ \times \quad 6 \\ \hline \end{array}$	$\begin{array}{r} 532 \\ \times \quad 6 \\ \hline 2 \end{array}$	$\begin{array}{r} 532 \\ \times \quad 6 \\ \hline 92 \end{array}$	$\begin{array}{r} 532 \\ \times \quad 6 \\ \hline 3,192 \end{array}$

When 532 is multiplied by 6, the product is 3,192.



532 is 500 rounded to the nearest hundred.











$$500 \times 6 = 3,000$$

3,192 is close to 3,000.

So, the answer is reasonable.

Multiplying and Dividing by 7

Remembering the multiplication table of 7 shown below helps us to multiply and divide by 7 easily.

$1 \times 7 = 7$ $7 \div 7 = 1$	
$2 \times 7 = 14$ $14 \div 7 = 2$	
$3 \times 7 = 21$ $21 \div 7 = 3$	
$4 \times 7 = 28$ $28 \div 7 = 4$	
$5 \times 7 = 35$ $35 \div 7 = 5$	
$6 \times 7 = 42$ $42 \div 7 = 6$	
$7 \times 7 = 49$ $49 \div 7 = 7$	
$8 \times 7 = 56$ $56 \div 7 = 8$	
$9 \times 7 = 63$ $63 \div 7 = 9$	
$10 \times 7 = 70$ $70 \div 7 = 10$	

$$10 \times 7 = 70$$

$$9 \times 7 = 70 - 7$$













$$10 \times 7 = 70$$

$$2 \times 7 = 14$$

$$8 \times 7 = 70 - 14$$

Multiplying and Dividing by 8

Remembering the multiplication table of 8 shown below helps us to multiply and divide by 8 easily.

$1 \times 8 = 8$ $8 \div 8 = 1$	
$2 \times 8 = 16$ $16 \div 8 = 2$	
$3 \times 8 = 24$ $24 \div 8 = 3$	
$4 \times 8 = 32$ $32 \div 8 = 4$	
$5 \times 8 = 40$ $40 \div 8 = 5$	
$6 \times 8 = 48$ $48 \div 8 = 6$	
$7 \times 8 = 56$ $56 \div 8 = 7$	
$8 \times 8 = 64$ $64 \div 8 = 8$	
$9 \times 8 = 72$ $72 \div 8 = 9$	
$10 \times 8 = 80$ $80 \div 8 = 10$	

$$10 \times 8 = 80$$

$$9 \times 8 = 80 - 8$$













$$5 \times 8 = 40$$

$$6 \times 8 = 40 + 8$$

Multiplying and Dividing by 9

Remembering the multiplication table of 9 shown below helps us to multiply and divide by 9 easily.

$1 \times 9 = 9$ $9 \div 9 = 1$	
$2 \times 9 = 18$ $18 \div 9 = 2$	
$3 \times 9 = 27$ $27 \div 9 = 3$	
$4 \times 9 = 36$ $36 \div 9 = 4$	
$5 \times 9 = 45$ $45 \div 9 = 5$	
$6 \times 9 = 54$ $54 \div 9 = 6$	
$7 \times 9 = 63$ $63 \div 9 = 7$	
$8 \times 9 = 72$ $72 \div 9 = 8$	
$9 \times 9 = 81$ $81 \div 9 = 9$	
$10 \times 9 = 90$ $90 \div 9 = 10$	

If the sum of the digits in a number is 9, the number can be divided by 9 exactly.

$$243 \div 9 = 27$$

$$2 + 4 + 3 = 9$$

