

VM - LEVEL 3 NAME: _____

PHONE NUMBER: _____

Subtract:

91	348	500	4186	2746	4682	7500	3820
-36	-173	-186	-2869	-1087	-1993	-1835	-547
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

Multiply:

$89 \times 11 =$	$25 \times 22 =$	$19 \times 99 =$	$27 \times 9 =$
$54 \times 11 =$	$31 \times 22 =$	$37 \times 99 =$	$72 \times 9 =$
$55 \times 12 =$	$98 \times 33 =$	$73 \times 99 =$	$23 \times 999 =$
$69 \times 12 =$	$21 \times 44 =$	$45 \times 99 =$	$82 \times 999 =$

Base Multiplication:

98	97	94	105	107	108	986	993
$\times 97$	$\times 95$	$\times 98$	$\times 104$	$\times 102$	$\times 106$	$\times 998$	$\times 988$
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
103	107	113	109	112	1004	1011	1008
$\times 97$	$\times 98$	$\times 98$	$\times 109$	$\times 104$	$\times 988$	$\times 999$	$\times 992$
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

Multiply:

37	76	28	53	12	74	25	32
$\times 52$	$\times 71$	$\times 45$	$\times 74$	$\times 27$	$\times 29$	$\times 87$	$\times 46$
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
69	14	62	59	78	22	37	19
$\times 46$	$\times 34$	$\times 55$	$\times 78$	$\times 12$	$\times 59$	$\times 24$	$\times 41$
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
32	58	13	25	89	91	53	21
$\times 23$	$\times 92$	$\times 26$	$\times 14$	$\times 76$	$\times 44$	$\times 70$	$\times 13$
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

Multiply : (Hint - Working base Multiplication)

66	58	47	39	29	58	53	18
$\times 69$	$\times 57$	$\times 51$	$\times 38$	$\times 29$	$\times 62$	$\times 46$	$\times 19$
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

Solve:

$(a+2b) (2a+b)$

$(2a+b) (3a+3b)$

$(2x-2y) (4x+3y)$

$(25x-5y) (2x+5y)$

Find Squares of:

$21^2 =$ _____

$36^2 =$ _____

$18^2 =$ _____

$35^2 =$ _____

$35^2 =$ _____

$71^2 =$ _____

$26^2 =$ _____

$49^2 =$ _____

Find the Square root of:

$$\begin{aligned} 3136 &= \underline{\hspace{2cm}} \\ 1024 &= \underline{\hspace{2cm}} \\ 6241 &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} 3481 &= \underline{\hspace{2cm}} \\ 8649 &= \underline{\hspace{2cm}} \\ 4489 &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} 1936 &= \underline{\hspace{2cm}} \\ 3844 &= \underline{\hspace{2cm}} \\ 361 &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} 2809 &= \underline{\hspace{2cm}} \\ 784 &= \underline{\hspace{2cm}} \\ 5476 &= \underline{\hspace{2cm}} \end{aligned}$$

Find Cube root of:

$$\begin{aligned} 132651 &= \underline{\hspace{2cm}} \\ 857375 &= \underline{\hspace{2cm}} \\ 531441 &= \underline{\hspace{2cm}} \\ 373248 &= \underline{\hspace{2cm}} \\ 778688 &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} 19683 &= \underline{\hspace{2cm}} \\ 42875 &= \underline{\hspace{2cm}} \\ 85184 &= \underline{\hspace{2cm}} \\ 970299 &= \underline{\hspace{2cm}} \\ 10648 &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} 328509 &= \underline{\hspace{2cm}} \\ 46656 &= \underline{\hspace{2cm}} \\ 421875 &= \underline{\hspace{2cm}} \\ 571787 &= \underline{\hspace{2cm}} \\ 103823 &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} 493039 &= \underline{\hspace{2cm}} \\ 830584 &= \underline{\hspace{2cm}} \\ 140608 &= \underline{\hspace{2cm}} \\ 5832 &= \underline{\hspace{2cm}} \\ 4096 &= \underline{\hspace{2cm}} \end{aligned}$$

Find Cubes of:

$$\begin{aligned} 62^3 &= \underline{\hspace{2cm}} \\ 71^3 &= \underline{\hspace{2cm}} \\ 84^3 &= \underline{\hspace{2cm}} \\ 65^3 &= \underline{\hspace{2cm}} \\ 38^3 &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} 29^3 &= \underline{\hspace{2cm}} \\ 38^3 &= \underline{\hspace{2cm}} \\ 47^3 &= \underline{\hspace{2cm}} \\ 56^3 &= \underline{\hspace{2cm}} \\ 65^3 &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} 44^3 &= \underline{\hspace{2cm}} \\ 64^3 &= \underline{\hspace{2cm}} \\ 91^3 &= \underline{\hspace{2cm}} \\ 11^3 &= \underline{\hspace{2cm}} \\ 28^3 &= \underline{\hspace{2cm}} \end{aligned}$$

$$\begin{aligned} 74^3 &= \underline{\hspace{2cm}} \\ 83^3 &= \underline{\hspace{2cm}} \\ 92^3 &= \underline{\hspace{2cm}} \\ 19^3 &= \underline{\hspace{2cm}} \\ 20^3 &= \underline{\hspace{2cm}} \end{aligned}$$