

## Calculation

100 square									
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Multiplication and division square									
<b>1</b>	2	3	4	5	6	7	8	9	10
2	<b>4</b>	6	8	10	12	14	16	18	20
3	6	<b>9</b>	12	15	18	21	24	27	30
4	8	12	<b>16</b>	20	24	28	32	36	40
5	10	15	20	<b>25</b>	30	35	40	45	50
6	12	18	24	30	<b>36</b>	42	48	54	60
7	14	21	28	35	42	<b>49</b>	56	63	70
8	16	24	32	40	48	56	<b>64</b>	72	80
9	18	27	36	45	54	63	72	<b>81</b>	90
10	20	30	40	50	60	70	80	90	<b>100</b>

Fractions									
$\frac{1}{10}$	$\frac{2}{10}$	$\frac{3}{10}$	$\frac{4}{10}$	$\frac{5}{10}$	$\frac{6}{10}$	$\frac{7}{10}$	$\frac{8}{10}$	$\frac{9}{10}$	1
Decimals									
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
Percentages									
10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

## Calculation

### Column Addition 1

(a)

$$\begin{array}{r} \text{T} \quad \text{U} \\ 3 \quad 2 \\ + 5 \quad 4 \\ \hline \end{array} \quad (2 + 4 = 6)$$

(b)

$$\begin{array}{r} \text{T} \quad \text{U} \\ 3 \quad 2 \\ + 5 \quad 4 \\ \hline 6 \end{array} \quad (3 + 5 = 8)$$

(c)

$$\begin{array}{r} \text{T} \quad \text{U} \\ 3 \quad 2 \\ + 5 \quad 4 \\ \hline 8 \quad 6 \end{array}$$

### Column Addition 2 (carrying)

(a)

$$\begin{array}{r} \text{T} \quad \text{U} \\ 4 \quad 8 \\ + 2 \quad 5 \\ \hline \end{array} \quad (8 + 5 = 13)$$

(b)

$$\begin{array}{r} \text{T} \quad \text{U} \\ 4 \quad 8 \\ + 2 \quad 5 \\ \hline 3 \\ 1 \end{array} \quad \begin{array}{l} (4 + 2 = 6) \\ (6 + 1 = 7) \end{array}$$

(c)

$$\begin{array}{r} \text{T} \quad \text{U} \\ 4 \quad 8 \\ + 2 \quad 5 \\ \hline 7 \quad 3 \\ 1 \end{array}$$

### Column Addition 3

(a)

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 3 \quad 5 \quad 8 \\ + \quad 9 \quad 4 \\ \hline 2 \\ 1 \end{array} \quad (8 + 4 = 12)$$

(b)

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 3 \quad 5 \quad 8 \\ + \quad 9 \quad 4 \\ \hline 5 \quad 2 \\ 1 \quad 1 \end{array} \quad \begin{array}{l} (5 + 9 = 14) \\ (14 + 1 = 15) \end{array}$$

(c)

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 3 \quad 5 \quad 8 \\ + \quad 9 \quad 4 \\ \hline 4 \quad 5 \quad 2 \\ 1 \quad 1 \end{array} \quad (3 + 1 = 4)$$

### Subtraction 1

(a)

$$\begin{array}{r} \text{T} \quad \text{U} \\ 6 \quad 7 \\ - 2 \quad 4 \\ \hline \end{array} \quad (7 - 4 = 3)$$

(b)

$$\begin{array}{r} \text{T} \quad \text{U} \\ 6 \quad 7 \\ - 2 \quad 4 \\ \hline 3 \end{array} \quad (6 - 2 = 4)$$

(c)

$$\begin{array}{r} \text{T} \quad \text{U} \\ 6 \quad 7 \\ - 2 \quad 4 \\ \hline 4 \quad 3 \end{array}$$

### Subtraction 2 (decomposition)

(a)

$$\begin{array}{r} \text{T} \quad \text{U} \\ 8 \quad 2 \\ - 5 \quad 6 \\ \hline \end{array} \quad \begin{array}{l} (2 - 6 = ?) \\ \text{move over a 10} \end{array}$$

(b)

$$\begin{array}{r} \text{T} \quad \text{U} \\ 7 \quad \cancel{8} \quad 12 \\ - 5 \quad 6 \\ \hline 6 \end{array} \quad (12 - 6 = 6)$$

(c)

$$\begin{array}{r} \text{T} \quad \text{U} \\ 7 \quad \cancel{8} \quad 12 \\ - 5 \quad 6 \\ \hline 2 \quad 6 \end{array} \quad (7 - 5 = 2)$$

# Calculation

## Short Multiplication 1

(a)

$$\begin{array}{r} \text{T} \quad \text{U} \\ 2 \quad 6 \\ \times \quad 3 \\ \hline \end{array} \quad (6 \times 3 = 18)$$

(b)

$$\begin{array}{r} \text{T} \quad \text{U} \\ 2 \quad 6 \\ \times \quad 3 \\ \hline 8 \\ \hline 1 \end{array} \quad \begin{array}{l} (20 \times 3 = 60) \\ (60 + 10 = 70) \end{array}$$

(c)

$$\begin{array}{r} \text{T} \quad \text{U} \\ 2 \quad 6 \\ \times \quad 3 \\ \hline 7 \quad 8 \\ \hline 1 \end{array}$$

## Short Multiplication 2

(a)

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 3 \quad 4 \quad 6 \\ \times \quad 9 \\ \hline 5 \quad 4 \end{array} \quad (6 \times 9)$$

(b)

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 3 \quad 4 \quad 6 \\ \times \quad 9 \\ \hline 5 \quad 4 \\ 3 \quad 6 \quad 0 \end{array} \quad (40 \times 9)$$

(c)

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 3 \quad 4 \quad 6 \\ \times \quad 9 \\ \hline 5 \quad 4 \\ 3 \quad 6 \quad 0 \\ + 2 \quad 7 \quad 0 \quad 0 \\ \hline 3 \quad 1 \quad 1 \quad 4 \\ \hline 1 \quad 1 \end{array} \quad (300 \times 9)$$

## Short Division

(a)

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 1 \\ 3 \overline{) 3 \quad 7 \quad 5} \end{array}$$

3 into 3 goes 1

(b)

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 1 \quad 2 \\ 3 \overline{) 3 \quad 7 \quad 15} \end{array}$$

3 into 7 goes 2 r1

(c)

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 1 \quad 2 \quad 5 \\ 3 \overline{) 3 \quad 7 \quad 15} \end{array}$$

3 into 15 goes 5

## Long Multiplication

(a)

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 3 \quad 2 \\ \times 2 \quad 6 \\ \hline 1 \quad 2 \\ + 1 \quad 8 \quad 0 \\ \hline 1 \quad 9 \quad 2 \end{array} \quad \begin{array}{l} (2 \times 6 = 12) \\ (30 \times 6 = 180) \\ (32 \times 6) \end{array}$$

(b)

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 3 \quad 2 \\ \times 2 \quad 6 \\ \hline 4 \quad 0 \\ + 6 \quad 0 \quad 0 \\ \hline 6 \quad 4 \quad 0 \end{array} \quad \begin{array}{l} (2 \times 20 = 40) \\ (30 \times 20 = 600) \\ (32 \times 20) \end{array}$$

(c)

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 3 \quad 2 \\ \times 2 \quad 6 \\ \hline 1 \quad 9 \quad 2 \\ + 6 \quad 4 \quad 0 \\ \hline 8 \quad 3 \quad 2 \\ \hline 1 \end{array} \quad \begin{array}{l} (32 \times 6) \\ (32 \times 20) \\ (32 \times 26) \end{array}$$