

Year 3

Visual calculation
methods

Mental Addition

MA1: Partitioning

4

$$648 + 231 = 879$$

$$800 + 70 + 9 = 879$$



MA5: Round & Adjust

3

$$45 + 97 = 142$$

$$45 + 100 - 3$$

$$145 - 3 = 142$$



Addition

(A7: Column Addition)

Additional: a

$$\begin{array}{r} \text{10} \quad \text{1} \\ 57 \\ + 25 \\ \hline 82 \\ \hline 1 \end{array}$$



(A7: Column Addition)

Additional:

$$\begin{array}{r} \text{100} \quad \text{10} \quad \text{1} \\ \quad \quad \text{86} \\ + \quad \text{48} \\ \hline \text{134} \\ \hline \text{1} \quad \text{1} \end{array}$$



Mental Subtraction

MS1: Counting Back

$$46 - 21 = 25$$



MS2a: Counting On

$$75 - 47 = 28$$



MS3: Round & Adjust

$$84 - 29 = 55$$

$$84 - 30 + 1$$

$$54 + 1 = 55$$



Subtraction

(S11: Column Subtraction)

Additional

$$\begin{array}{r} \text{10} \quad \text{1} \\ 87 \\ - 23 \\ \hline 64 \end{array}$$



Mental Multiplication

MM3a: Partitioning

$$37 \times 4 = 148$$

$$\begin{array}{c} \text{120} \\ (30 \times 4) \end{array} + \begin{array}{c} \text{28} \\ (7 \times 4) \end{array} = 148$$



Mx3: Table Facts

3x table

3

3x 1 = 3
3x 2 = 6
3x 3 = 9
3x 4 = 12
3x 5 = 15
3x 6 = 18
3x 7 = 21
3x 8 = 24
3x 9 = 27
3x 10 = 30
3x 11 = 33
3x 12 = 36

3x 6 = 18
3x 12 = 36
3x 2 = 6
3x 4 = 12
3x 8 = 24
3x 3 = 9
3x 7 = 21
3x 9 = 27
3x 11 = 33
3x 5 = 15
3x 10 = 30
3x 1 = 3



Mx4: Table Facts

4

4 x 1 = 4
4 x 2 = 8
4 x 3 = 12
4 x 4 = 16
4 x 5 = 20
4 x 6 = 24
4 x 7 = 28
4 x 8 = 32
4 x 9 = 36
4 x 10 = 40
4 x 11 = 44
4 x 12 = 48

4 x 1 = 4
4 x 2 = 8
4 x 3 = 12
4 x 4 = 16
4 x 5 = 20
4 x 6 = 24
4 x 7 = 28
4 x 8 = 32
4 x 9 = 36
4 x 10 = 40
4 x 11 = 44
4 x 12 = 48



Mx8: Table Facts

8

$8 \times 1 = 8$
 $8 \times 2 = 16$
 $8 \times 3 = 24$
 $8 \times 4 = 32$
 $8 \times 5 = 40$
 $8 \times 6 = 48$
 $8 \times 7 = 56$
 $8 \times 8 = 64$
 $8 \times 9 = 72$
 $8 \times 10 = 80$
 $8 \times 11 = 88$
 $8 \times 12 = 96$

8x table

$8 \times 1 = 8$
 $8 \times 6 = 48$
 $8 \times 11 = 88$
 $8 \times 2 = 16$
 $8 \times 10 = 80$
 $8 \times 4 = 32$
 $8 \times 9 = 72$
 $8 \times 12 = 96$
 $8 \times 8 = 64$
 $8 \times 3 = 24$
 $8 \times 7 = 56$



Multiplication

Division

(D10: Short Division)

Additional

$$72 \div 4 = 18$$

$$\begin{array}{r} 18 \\ 4 \overline{) 72} \end{array}$$

