

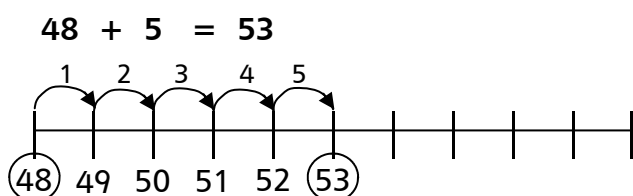
INTRODUCTION

The program provides learning experiences and assessment opportunities for students who have difficulties to learn and recall number facts. Students are encouraged to use their own suitable computation methods to arrive at the correct answers.

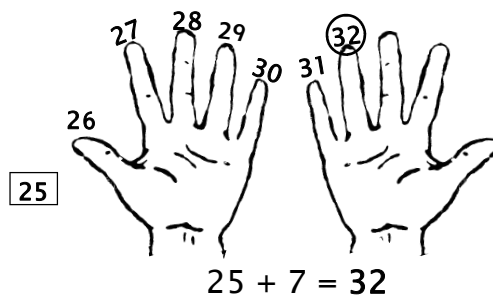
There are number of Mental Computation strategies to be applied to addition problems; such as: doubles, near doubles, turnarounds, splits, pattern counting etc.

Children learn in many different ways. Not all strategies are suitable for each child. One strategy might be helpful to one child and absolutely confusing to another. One strategy might be useful to begin with but another one will make the computation more workable at a later stage.

Counting on strategy using an empty number line.

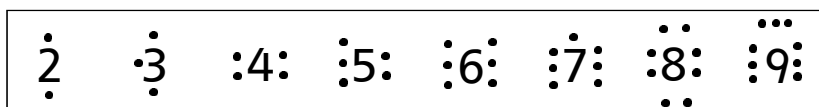


Fingers may form a number line.



Using a dot pattern to count on.

$$48 + \begin{matrix} \cdot \\ \cdot \\ \cdot \\ \cdot \\ \cdot \end{matrix} 5 = 53$$



Using a double or near double strategy.

$$36 + 6 = 42$$

double

$$30 + 12 =$$

$$30 + 10 + 2 = 42$$

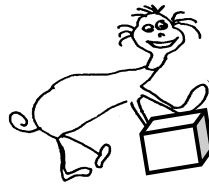
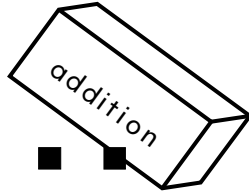
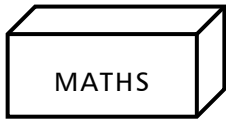
$$46 + 7 = 53$$

near double

$$40 + 12 + 1 =$$

$$30 + 10 + 2 + 1 =$$

$$40 + 10 + 2 + 1 = 53$$



- 13 $95 + 10 =$

- 14 $84 + 10 =$

- 15 $83 + 10 =$

- 16 $96 + 10 =$

- 17 $87 + 10 =$

- 18 $61 + 10 =$

- 19 $56 + 10 =$

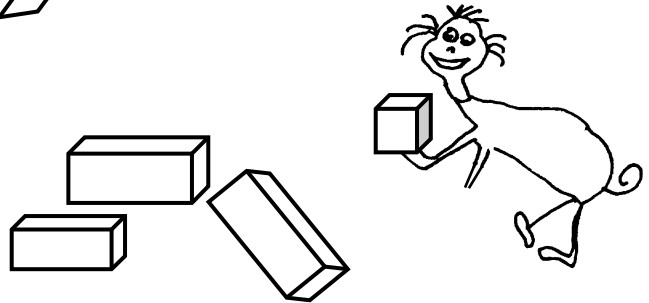
- 20 $91 + 10 =$

- 21 $82 + 10 =$

- 22 $88 + 10 =$

- 23 $92 + 10 =$

- 24 $99 + 10 =$



- 13 $97 + 10 =$

- 14 $86 + 10 =$

- 15 $93 + 10 =$

- 16 $98 + 10 =$

- 17 $78 + 10 =$

- 18 $94 + 10 =$

- 19 $79 + 10 =$

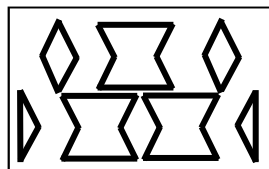
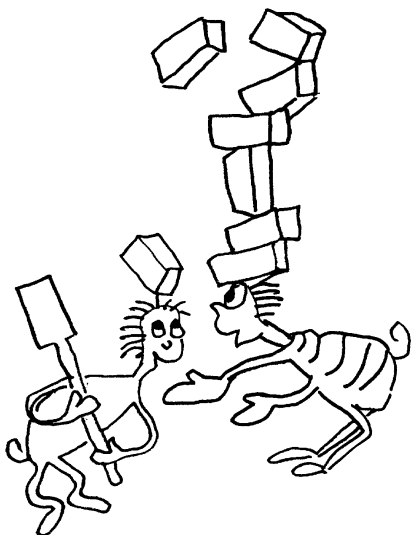
- 20 $89 + 10 =$

- 21 $76 + 10 =$

- 22 $81 + 10 =$

- 23 $90 + 10 =$

- 24 $77 + 10 =$



1

$$\begin{array}{r} 85 \\ +10 \\ \hline \\ \hline \end{array}$$

2

$$\begin{array}{r} 77 \\ +10 \\ \hline \\ \hline \end{array}$$

3

$$\begin{array}{r} 82 \\ +10 \\ \hline \\ \hline \end{array}$$

4

$$\begin{array}{r} 86 \\ +10 \\ \hline \\ \hline \end{array}$$

5

$$\begin{array}{r} 87 \\ +10 \\ \hline \\ \hline \end{array}$$

6

$$\begin{array}{r} 78 \\ +10 \\ \hline \\ \hline \end{array}$$

7

$$\begin{array}{r} 95 \\ +10 \\ \hline \\ \hline \end{array}$$

8

$$\begin{array}{r} 91 \\ +10 \\ \hline \\ \hline \end{array}$$

9

$$\begin{array}{r} 81 \\ +10 \\ \hline \\ \hline \end{array}$$

10

$$\begin{array}{r} 88 \\ +10 \\ \hline \\ \hline \end{array}$$

11

$$\begin{array}{r} 92 \\ +10 \\ \hline \\ \hline \end{array}$$

12

$$\begin{array}{r} 96 \\ +10 \\ \hline \\ \hline \end{array}$$

13

$$\begin{array}{r} 97 \\ +10 \\ \hline \\ \hline \end{array}$$

14

$$\begin{array}{r} 83 \\ +10 \\ \hline \\ \hline \end{array}$$

15

$$\begin{array}{r} 93 \\ +10 \\ \hline \\ \hline \end{array}$$

16

$$\begin{array}{r} 74 \\ +10 \\ \hline \\ \hline \end{array}$$

17

$$\begin{array}{r} 89 \\ +10 \\ \hline \\ \hline \end{array}$$

18

$$\begin{array}{r} 94 \\ +10 \\ \hline \\ \hline \end{array}$$

19

$$\begin{array}{r} 66 \\ +10 \\ \hline \\ \hline \end{array}$$

20

$$\begin{array}{r} 79 \\ +10 \\ \hline \\ \hline \end{array}$$

21

$$\begin{array}{r} 99 \\ +10 \\ \hline \\ \hline \end{array}$$

22

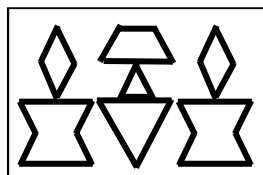
$$\begin{array}{r} 84 \\ +10 \\ \hline \\ \hline \end{array}$$

23

$$\begin{array}{r} 56 \\ +10 \\ \hline \\ \hline \end{array}$$

24

$$\begin{array}{r} 76 \\ +10 \\ \hline \\ \hline \end{array}$$



1

$$\begin{array}{r} 27 \\ +8 \\ \hline \\ \hline \end{array}$$

2

$$\begin{array}{r} 47 \\ +8 \\ \hline \\ \hline \end{array}$$

3

$$\begin{array}{r} 26 \\ +8 \\ \hline \\ \hline \end{array}$$

4

$$\begin{array}{r} 76 \\ +8 \\ \hline \\ \hline \end{array}$$

5

$$\begin{array}{r} 37 \\ +8 \\ \hline \\ \hline \end{array}$$

6

$$\begin{array}{r} 48 \\ +8 \\ \hline \\ \hline \end{array}$$

7

$$\begin{array}{r} 17 \\ +8 \\ \hline \\ \hline \end{array}$$

8

$$\begin{array}{r} 45 \\ +8 \\ \hline \\ \hline \end{array}$$

9

$$\begin{array}{r} 25 \\ +8 \\ \hline \\ \hline \end{array}$$

10

$$\begin{array}{r} 38 \\ +8 \\ \hline \\ \hline \end{array}$$

11

$$\begin{array}{r} 46 \\ +8 \\ \hline \\ \hline \end{array}$$

12

$$\begin{array}{r} 18 \\ +8 \\ \hline \\ \hline \end{array}$$

13

$$\begin{array}{r} 87 \\ +8 \\ \hline \\ \hline \end{array}$$

14

$$\begin{array}{r} 35 \\ +8 \\ \hline \\ \hline \end{array}$$

15

$$\begin{array}{r} 67 \\ +8 \\ \hline \\ \hline \end{array}$$

16

$$\begin{array}{r} 88 \\ +8 \\ \hline \\ \hline \end{array}$$

17

$$\begin{array}{r} 77 \\ +8 \\ \hline \\ \hline \end{array}$$

18

$$\begin{array}{r} 68 \\ +8 \\ \hline \\ \hline \end{array}$$

19

$$\begin{array}{r} 78 \\ +8 \\ \hline \\ \hline \end{array}$$

20

$$\begin{array}{r} 57 \\ +8 \\ \hline \\ \hline \end{array}$$

21

$$\begin{array}{r} 55 \\ +8 \\ \hline \\ \hline \end{array}$$

22

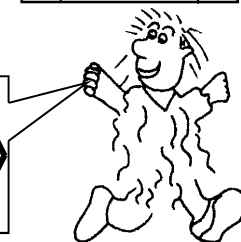
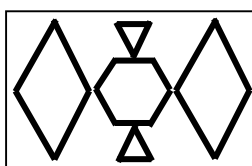
$$\begin{array}{r} 36 \\ +8 \\ \hline \\ \hline \end{array}$$

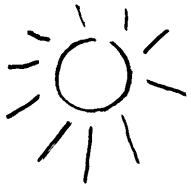
23

$$\begin{array}{r} 34 \\ +8 \\ \hline \\ \hline \end{array}$$

24

$$\begin{array}{r} 56 \\ +8 \\ \hline \\ \hline \end{array}$$





1 $65 + 8 =$

2 $45 + 8 =$

3 $15 + 7 =$

4 $65 + 9 =$

5 $55 + 8 =$

6 $95 + 7 =$

7 $75 + 8 =$

8 $25 + 6 =$

9 $15 + 6 =$

10 $55 + 9 =$

11 $25 + 7 =$

12 $75 + 9 =$

13 $55 + 6 =$

14 $35 + 6 =$

15 $25 + 8 =$

16 $55 + 7 =$

17 $65 + 6 =$

18 $75 + 7 =$

19 $65 + 6 =$

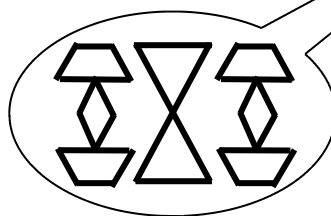
20 $85 + 6 =$

21 $45 + 6 =$

22 $35 + 7 =$

23 $85 + 7 =$

24 $45 + 7 =$



1

$$\begin{array}{r} 48 \\ +35 \\ \hline \\ \hline \end{array}$$

2

$$\begin{array}{r} 69 \\ +36 \\ \hline \\ \hline \end{array}$$

3

$$\begin{array}{r} 58 \\ +46 \\ \hline \\ \hline \end{array}$$

4

$$\begin{array}{r} 39 \\ +45 \\ \hline \\ \hline \end{array}$$

5

$$\begin{array}{r} 48 \\ +26 \\ \hline \\ \hline \end{array}$$

6

$$\begin{array}{r} 59 \\ +47 \\ \hline \\ \hline \end{array}$$

7

$$\begin{array}{r} 46 \\ +54 \\ \hline \\ \hline \end{array}$$

8

$$\begin{array}{r} 37 \\ +65 \\ \hline \\ \hline \end{array}$$

9

$$\begin{array}{r} 77 \\ +26 \\ \hline \\ \hline \end{array}$$

10

$$\begin{array}{r} 47 \\ +26 \\ \hline \\ \hline \end{array}$$

11

$$\begin{array}{r} 66 \\ +35 \\ \hline \\ \hline \end{array}$$

12

$$\begin{array}{r} 38 \\ +37 \\ \hline \\ \hline \end{array}$$

13

$$\begin{array}{r} 46 \\ +25 \\ \hline \\ \hline \end{array}$$

14

$$\begin{array}{r} 58 \\ +36 \\ \hline \\ \hline \end{array}$$

15

$$\begin{array}{r} 47 \\ +44 \\ \hline \\ \hline \end{array}$$

16

$$\begin{array}{r} 38 \\ +34 \\ \hline \\ \hline \end{array}$$

17

$$\begin{array}{r} 28 \\ +35 \\ \hline \\ \hline \end{array}$$

18

$$\begin{array}{r} 47 \\ +45 \\ \hline \\ \hline \end{array}$$

19

$$\begin{array}{r} 28 \\ +36 \\ \hline \\ \hline \end{array}$$

20

$$\begin{array}{r} 77 \\ +36 \\ \hline \\ \hline \end{array}$$

21

$$\begin{array}{r} 37 \\ +24 \\ \hline \\ \hline \end{array}$$

22

$$\begin{array}{r} 56 \\ +46 \\ \hline \\ \hline \end{array}$$

23

$$\begin{array}{r} 66 \\ +24 \\ \hline \\ \hline \end{array}$$

24

$$\begin{array}{r} 55 \\ +55 \\ \hline \\ \hline \end{array}$$

