Our goal at NCS is that students learn to love maths! We want to inspire, educate and empower our young mathematicians. Understanding how numbers work and using them flexibly are the keys to their success.

Our approach to basic facts learning here at N.C.S aims to help students develop their number sense so that they can approach numbers with confidence and creativity.

Basic fact learning should be about developing fluency alongside solving rich learning activities to apply this knowledge. Fluency is developed in 3 stages : counting, then using strategies and lastly mastery.

We present maths problems to students in a variety of ways. Like this example, it has a word problem, a visual representations and other facts that may be called upon to help solve it.

I was 5 years old when I started karate and I have been doing it for 6 years. How old am I now?

$$
5+5=10 \text { so } 5+6=11
$$

$$
01234566789101112131415
$$

## $5+6=11$

## My Maths Kete What?

Understanding + connections + flexible thinking $=$ fluency

| + | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |
| 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 4 | 4 | 5 | 6 | 7 | 8 |  | 10 | 11 | 12 | 13 | 14 |
| 5 | 5 | 6 | 7 | 8 |  | 10 | 1 | 12 | 13 | 14 | 15 |
| 6 | 6 | 7 | 8 | 9 | 10 |  | 12 | 13 | 14 | 15 | 16 |
| 7 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 8 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 9 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 10 |  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |

THIS GRID SHOWS THE CONNECTIONS BETWEEN THE ADDITION FACTS

Students can:

- Look for patterns
- Use facts they know to solve other facts
- Apply the rules( like adding 0)
- Notice the connections between the facts


## My Maths Kete

 How?This programme sees students learning about groups of related facts which we have organised into kete (baskets). Each kete comes with one or more tests so that students can check their understanding and develop fluency.

Students can practice within a kete of basic facts through the week at home and take one or more timed tests on Friday at school. The tests will allow I minute for every 10 equations (most tests have 10 equations).

Some students will have more success doing the tests orally and some students work better without the time constraints. This will be decided by the classroom teacher so every student can achieve success.

As students pass the tests they will keep a record of their progress on images of the kete (baskets) in their books.


## My Maths Kete <br> Help! What do we do at home?

Your child will come home on a Monday with a Kete (basket) number to work on. You then need to visit My Maths Kete online (this slideshow). This can be found on the school website or on your child's class website.

Once there, you will find a slide for each Kete number. These slides will tell you all the maths facts your child needs to learn for testing. This may take more than a week to master.

There are also some links on that slide to help you \& your child practice \& understand the requirements of this Kete.

Students need to do some practice each day to prepare for a test on Friday. Mix up the practice between card games, oral practice, online drills, written practice, etc.

On Friday at school they will do at least one test. This is between students \& teachers to agree upon.
They will then know which Kete they need to work on the following week. It may be the same again or a new Kete.

Keep in touch with classroom teachers as this programme is in the trial phase \& your feedback is crucial to its success.

## My Maths Kete

## Prototec Maths

This website offers printable or online practice sheets. It also has a timed challenge for each level.

Within this you can find facts that match our Kete. Some of it matches our Kete \& some does not.

| KETE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| PROTOTEC | Stages <br> $2-3$ |  |  | Stage <br> 4 | Stage <br> 5 | Stage <br> 4 | Stage <br> $5 \& 6$ | Stage <br> 7 |  |  | Stage <br> 8 |  |  |  |

## Ketel abouts <br> W.A.L.T add and subtract to 5 and within 5

| + | 0 | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{0}$ | 0 | 1 | 2 | 3 | 4 | 5 |  |  |  |  |  |
| $\mathbf{1}$ | 1 | 2 | 3 | 4 | 5 |  |  |  |  |  |  |
| $\mathbf{2}$ | 2 | 3 | 4 | 5 |  |  |  |  |  |  |  |
| $\mathbf{3}$ | 3 | 4 | 5 |  |  |  |  |  |  |  |  |
| $\mathbf{4}$ | 4 | 5 |  |  |  |  |  |  |  |  |  |
| $\mathbf{5}$ | 5 |  |  |  |  |  |  |  |  |  |  |
| $\mathbf{6}$ |  |  |  |  |  |  |  |  |  |  |  |
| $\mathbf{7}$ |  |  |  |  |  |  |  |  |  |  |  |
| $\mathbf{8}$ |  |  |  |  |  |  |  |  |  |  |  |
| $\mathbf{9}$ |  |  |  |  |  |  |  |  |  |  |  | | $1+4=5$ |
| :---: |
| $4+1=5$ |
| $5-1=4$ |
| $5-4=1$ |
| Family of Facts |

What can I do at home to support my child?

- https://nzmaths.co.nz/number-kno wledge-activities
- https://nzmaths.co.nz/maths-our-h ouse
- Flash cards
- Games using playing cards


## Kete 2

## doubles to 10

W.A.L.T. our doubles and halves facts to 10


What can I do at home to support my child?

- https://nzmaths.co.nz/number-kno wledge-activities
- https://nzmaths.co.nz/maths-our-h ouse
- Flash cards
- Games using playing cards

| Facts I Need to Know |  |  |  |
| :--- | :--- | :--- | :---: |
| $1+1=2$ | $2-1=1$ | Double 1 $=2$ |  | Half of 2 =1

This kete comes with three follow up tests: Test A doubles (numbers and words), Test B halves (numbers and words) tested in order, then

Test C, a combination, out of order

## W.A.L.T add and subtract to 10

| A: Basic Facts Set |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| + | 0 | 1 | 2 | 3 | 4 | 5 |  | 6 | 7 | 8 | 9 | 10 |
| 0 |  |  |  |  |  |  |  |  |  |  |  | 10 |
| 1 |  |  |  |  |  |  |  |  |  |  | 10 |  |
| 2 |  |  |  |  |  |  |  |  |  | 10 |  |  |
| 3 |  |  |  |  |  |  |  |  | 10 |  |  |  |
| 4 |  |  |  |  |  |  |  | 10 |  |  |  |  |
| 5 |  |  |  |  |  |  | 0 |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  | 10 |  |  |  |  |  |  |  |  |
| 8 |  |  | 10 |  |  |  |  |  |  |  |  |  |
| 9 |  | 10 |  |  |  |  |  |  |  |  |  |  |
| 10 | 10 |  |  |  |  |  |  |  |  |  |  |  |

What can I do at home to support my child?

- https://nzmaths.co.nz/number-kno wledge-activities
- https://nzmaths.co.nz/maths-our-h ouse
- Flash cards
- Games using playing cards

Facts I Need to Know

$$
\begin{array}{ll}
9+1=10 & 10-1=9 \\
8+2=10 & 10-2=8 \\
7+3=10 & 10-3=7 \\
6+4=10 & 10-4=6 \\
1+9=10 & 10-9=1 \\
2+8=10 & 10-8=2 \\
3+7=10 & 10-7=3 \\
4+6=10 & 10-6-4
\end{array}
$$

This kete comes with one follow up test A: a combination of addition and subtraction facts.

## W.A.L.T know our addition and subtraction facts within 10

| A: Basic Facts Set |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 0 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |
| 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |
| 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |
| 4 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |
| 5 | 5 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |  |
| 6 | 6 | 7 | 8 | 9 | 10 |  |  |  |  |  |  |
| 7 | 7 | 8 | 9 | 10 |  |  |  |  |  |  |  |
| 8 | 8 | 9 | 10 |  |  |  |  |  |  |  |  |
| 9 | 9 | 10 |  |  |  |  |  |  |  |  |  |
| 10 | 10 |  |  |  |  |  |  |  |  |  |  |

What can I do at home to support my child?
$2+4=6$
$4+2=6$
$6-2=4$
$6-4=2$
Family of Facts


- https://nzmaths.co.nz/number-kno wledge-activities
- https://nzmaths.co.nz/maths-our-h ouse
- Flash cards
- Games using playing cards


## Kete 5 <br> From 10 <br> W.A.L.T add on to 10

| + | 0 | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{0}$ |  |  |  |  |  |  |  |  |  |  | 10 |
| $\mathbf{1}$ |  |  |  |  |  |  |  |  |  |  | 11 |
| $\mathbf{2}$ |  |  |  |  |  |  |  |  |  |  | 12 |
| $\mathbf{3}$ |  |  |  |  |  |  |  |  |  |  | 13 |
| $\mathbf{4}$ |  |  |  |  |  |  |  |  |  |  | 14 |
| $\mathbf{5}$ |  |  |  |  |  |  |  |  |  |  | 15 |
| $\mathbf{6}$ |  |  |  |  |  |  |  |  |  |  | 16 |
| $\mathbf{7}$ |  |  |  |  |  |  |  |  |  |  | 17 |
| $\mathbf{8}$ |  |  |  |  |  |  |  |  |  |  | 18 |
| $\mathbf{9}$ |  |  |  |  |  |  |  |  |  |  | 19 |
| $\mathbf{1 0}$ | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |

What can I do at home to support my child?

- Number facts games
- Make flashcards together for tricky facts
- Play Prototec to get faster at your facts


## Kete 6 Bridge 10

## WALT: add two numbers together whose total is greater than 10

| + | $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{0}$ |  |  |  |  |  |  |  |  |  |  |  |
| $\mathbf{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| $\mathbf{2}$ |  |  |  |  |  |  |  |  |  | 11 |  |
| $\mathbf{3}$ |  |  |  |  |  |  |  |  | 11 | 12 |  |
| $\mathbf{4}$ |  |  |  |  |  |  |  | 11 | 12 | 13 |  |
| $\mathbf{5}$ |  |  |  |  |  |  | 11 | 12 | 13 | 14 |  |
| $\mathbf{6}$ |  |  |  |  |  | 11 | 12 | 13 | 14 | 15 |  |
| $\mathbf{7}$ |  |  |  |  | 11 | 12 | 13 | 14 | 15 | 16 |  |
| $\mathbf{8}$ |  |  |  | 11 | 12 | 13 | 14 | 15 | 16 | 17 |  |
| $\mathbf{9}$ |  |  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |  |
| $\mathbf{1 0}$ |  |  |  |  |  |  |  |  |  |  |  |


| Facts I Need to Know |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $9+2=11$ |  |  |  |  |  |
| $9+3=12$ | $8+3=11$ | $7+4=11$ | $6+5=11$ |  |  |
| $9+4=13$ | $8+4=12$ | $7+5=12$ | $6+6+12$ | $5+6=11$ |  |
| $9+5=14$ | $8+5=13$ | $7+6=13$ | $6+7=13$ | $5+7=12$ | $4+7=11$ |
| $9+6=15$ | $8+6=14$ | $7+7=14$ | $6+8=14$ | $5+8=13$ | $4+8=12$ |
| $9+7=16$ | $8+7=15$ | $7+8=15$. | $6+9=15$ | $5+9=14$ | $4+9=13$ |
| $9+8=17$ | $8+8=16$ | $7+9=16$ |  |  |  |
| $9+9=18$ | $8+9=17$ |  |  |  |  |

This kete comes with two tests. Both tests $A \& B$ are a mix of facts from this list.

- Number facts games
- Make flashcards together for tricky facts
- Play Prototec to get faster at your facts
- Video about bridging 10


# Kete <br> Doubles and Halves to 20 

## W.A.L.T double a number and to find half of a number

Facts I Need to Know

| $0+0=0$ | $1+1=2$ | $2+2=4$ | $3+3=6$ | $4+4=8$ | $5+5=10$ | $6+6=12$ | $7+7=14$ | $8+8=16$ | $9+9=18$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $0-0=0$ | $2-1=1$ | $4-2=2$ | $6-3=3$ | $8-4=4$ | $10-5=5$ | $12-6=6$ | $14-7=7$ | $16-8=8$ | $18-9=9$ | $20-10=10$

This kete comes with two tests. Test $A$ is addition and Test $B$ is subtraction.

## What can I do at home to support my child?

- Number facts games
- Make flashcards together for tricky facts
- Play Prototec to get faster at your facts
- Doubling \& halving video

| + | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 0 | 0 |  |  |  |  |  |  |  |  |  |  |
| $\mathbf{1}$ |  | 2 |  |  |  |  |  |  |  |  |  |
| 2 |  |  | 4 |  |  |  |  |  |  |  |  |
| $\mathbf{3}$ |  |  |  | 6 |  |  |  |  |  |  |  |
| $\mathbf{4}$ |  |  |  |  | 8 |  |  |  |  |  |  |
| $\mathbf{5}$ |  |  |  |  |  | 10 |  |  |  |  |  |
| $\mathbf{6}$ |  |  |  |  |  |  | 12 |  |  |  |  |
| $\mathbf{7}$ |  |  |  |  |  |  |  | 14 |  |  |  |
| $\mathbf{8}$ |  |  |  |  |  |  |  |  | 16 |  |  |
| $\mathbf{9}$ |  |  |  |  |  |  |  |  |  | 18 |  |
| $\mathbf{1 0}$ |  |  |  |  |  |  |  |  |  |  | 20 |

## Kete 8

## Within 20

## W.A.L.T solve all the addition and subtraction facts up to 20

What can I do at home to support my child?

- Number facts games
- Make flashcards together for tricky facts
- Play Prototec to get faster at your facts

| + | 0 | $\mathbf{1}$ | $\mathbf{2}$ | 3 | 4 | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | 8 | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{0}$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| $\mathbf{1}$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| $\mathbf{2}$ | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| $\mathbf{3}$ | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 4 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| $\mathbf{5}$ | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| $\mathbf{6}$ | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| $\mathbf{7}$ | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 8 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| $\mathbf{9}$ | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| $\mathbf{1 0}$ | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |

This kete comes with four tests.
Tests A \& B are addition facts and tests C \& D are subtraction facts

## Kete 9

## W.A.L.T recall our times table facts for the 2,5 and 10 times tables and the

 associated division facts.| $\mathbf{X}$ | $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{0}$ |  |  | 0 |  |  | 0 |  |  |  |  | 0 |
| $\mathbf{1}$ |  |  | 2 |  |  | 5 |  |  |  |  | 10 |
| $\mathbf{2}$ | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| $\mathbf{3}$ |  |  | 6 |  |  | 15 |  |  |  |  | 30 |
| $\mathbf{4}$ |  |  | 8 |  |  | 20 |  |  |  |  | 40 |
| $\mathbf{5}$ | 0 | $\mathbf{5}$ | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| $\mathbf{6}$ |  |  | 12 |  |  | 30 |  |  |  |  | 60 |
| $\mathbf{7}$ |  |  | 14 |  |  | 35 |  |  |  |  | 70 |
| $\mathbf{8}$ |  |  | 16 |  |  | 40 |  |  |  |  | 80 |
| $\mathbf{9}$ |  |  | 18 |  |  | 45 |  |  |  |  | 90 |
| $\mathbf{1 0}$ | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

What can I do at home to support my child?

- Skip count
- Chant the stations aloud, forwards and backwards
- Find a song on YouTube
- Learn the family of facts for each fact. Watch this video for more information on how fact families work.
- Use timestables.co.nz to practice
- Test your understanding at Prototec
- Make a set of flashcards and play matching or memory games.

FACTS INEED TO KNOW

| Two Times Table | Five Times Table | Ten Times Table |
| :--- | :--- | :--- |
| $0 \times 2=0$ | $0 \times 5=0$ | $0 \times 10=0$ |
| $1 \times 2=2$ | $1 \times 5=5$ | $1 \times 10=10$ |
| $2 \times 2=4$ | $2 \times 5=10$ | $2 \times 10=20$ |
| $3 \times 2=6$ | $3 \times 5=15$ | $3 \times 10=30$ |
| $4 \times 2=8$ | $4 \times 5=20$ | $4 \times 10=40$ |
| $5 \times 2=10$ | $5 \times 5=25$ | $5 \times 10=50$ |
| $6 \times 2=12$ | $6 \times 5=30$ | $6 \times 10=60$ |
| $7 \times 2=14$ | $7 \times 5=35$ | $7 \times 10=70$ |
| $8 \times 2=16$ | $8 \times 5=40$ | $8 \times 10=80$ |
| $9 \times 2=18$ | $9 \times 5=45$ | $9 \times 10=90$ |
| $10 \times 2=20$ | $10 \times 5=50$ | $10 \times 10=100$ |

This kete comes with six follow up tests.
A: $2 \times$ table facts out of order
B: $2 \times$ table division facts
C: $5 x$ table facts out of order
D: $5 \times$ table division facts

E: $10 \times$ table facts out of order
F: $10 \times$ table division facts

## Kete 10 Sauares

## W.A.L.T recall single digit squared numbers and explore patterns related to

| $\mathbf{X}$ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{0}$ |  |  |  |  |  |  |  |  |  |  |  |
| $\mathbf{1}$ |  | 1 |  |  |  |  |  |  |  |  |  |
| $\mathbf{2}$ |  |  | 4 |  |  |  |  |  |  |  |  |
| $\mathbf{3}$ |  |  |  | 9 |  |  |  |  |  |  |  |
| $\mathbf{4}$ |  |  |  |  | 16 |  |  |  |  |  |  |
| $\mathbf{5}$ |  |  |  |  |  | 25 |  |  |  |  |  |
| $\mathbf{6}$ |  |  |  |  |  |  | 36 |  |  |  |  |
| $\mathbf{7}$ |  |  |  |  |  |  |  | 49 |  |  |  |
| $\mathbf{8}$ |  |  |  |  |  |  |  |  | 64 |  |  |
| $\mathbf{9}$ |  |  |  |  |  |  |  |  |  | 81 |  |
| $\mathbf{1 0}$ |  |  |  |  |  |  |  |  |  |  |  |

What can I do at home to support my child?

- Watch this video to learn about square numbers.
- Use beads, blocks or m\&m's to make squares as below.

$16=4^{2}$


## square numbers.

## FACTS INEED TO KNOW

Square Numbers
$1 x \mid$ or $1^{2}=1$
$2 \times 2$ or $2^{2}=4$
$3 \times 3$ or $3^{2}=9$
$4 \times 4$ or $4^{2}=16$
$5 \times 5$ or $5^{2}=25$
$6 \times 6$ or $6^{2}=36$
$7 \times 7$ or $7^{2}=49$
$8 \times 8$ or $8^{2}=64$
$9 \times 9$ or $9^{2}=81$
$10 \times 10$ or $10^{2}=100$

This kete comes with one test. The order of the square numbers on the test will be out of numerical order.

## Kete II

## W.A.L.T recall our times table facts for the 4 and 8 times tables as well as

the associated division facts.

| X | 0 | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{0}$ |  |  |  |  | 0 |  |  |  | 0 |  |  |
| $\mathbf{1}$ |  |  |  |  | 4 |  |  |  | 8 |  |  |
| $\mathbf{2}$ |  |  |  |  | 8 |  |  |  | 16 |  |  |
| $\mathbf{3}$ |  |  |  |  | 12 |  |  |  | 24 |  |  |
| $\mathbf{4}$ | 0 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 |
| $\mathbf{5}$ |  |  |  |  | 20 |  |  |  | 40 |  |  |
| $\mathbf{6}$ |  |  |  |  | 24 |  |  |  | 48 |  |  |
| $\mathbf{7}$ |  |  |  |  | 28 |  |  |  | 56 |  |  |
| $\mathbf{8}$ | 0 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 |
| $\mathbf{9}$ |  |  |  |  | 36 |  |  |  | 72 |  |  |
| $\mathbf{1 0}$ |  |  |  |  | 40 |  |  |  | 80 |  |  |

What can I do at home to support my child?

- Skip count
- Chant the stations aloud, forwards and backwards
- Find a song on YouTube
- Learn the family of facts for each fact. Watch this video for more information on how fact families work.
- Use timestables.co.nz to practice
- Test your understanding at Prototec
- Make a set of flashcards and play matching or memory games.


## FACTS I NEED TO KNOW

Four Times Table
$0 \times 4=0$
$1 \times 4=4$
$2 \times 4=8$
$3 \times 4=12$
$4 \times 4=16$
$5 \times 4=20$
$6 \times 4=24$
$7 \times 4=28$
$8 \times 4=32$
$9 \times 4=36$
$10 \times 4=40$

This kete comes with four follow up tests.
A: $4 \times$ table facts out of order
C: $8 \times$ table facts out of order

Eight Times Table
$0 \times 8=0$
$1 \times 8=8$
$2 \times 8=16$
$3 \times 8=24$
$4 \times 8=32$
$5 \times 8=40$
$6 \times 8=48$
$7 \times 8=56$
$8 \times 8=64$
$9 \times 8=72$
$10 \times 8=80$

## Kete $12 \quad \times 3, \times 6$ and $\times 9$

## W.A.L.T recall our times table facts for the 3,6 and 9 times tables as well as

 the associated division facts.| $\mathbf{X}$ | $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{0}$ |  |  |  | 0 |  |  | 0 |  |  | 0 |  |
| $\mathbf{1}$ |  |  |  | 3 |  |  | 6 |  |  | 9 |  |
| $\mathbf{2}$ |  |  |  | 6 |  |  | 12 |  |  | 18 |  |
| $\mathbf{3}$ | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 |
| $\mathbf{4}$ |  |  |  | 12 |  |  | 24 |  |  | 36 |  |
| $\mathbf{5}$ |  |  |  | 15 |  |  | 30 |  |  | 45 |  |
| $\mathbf{6}$ | 0 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| $\mathbf{7}$ |  |  |  | 21 |  |  | 42 |  |  | 63 |  |
| $\mathbf{8}$ |  |  |  | 24 |  |  | 48 |  |  | 72 |  |
| $\mathbf{9}$ | 0 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 |
| $\mathbf{1 0}$ |  |  |  | 30 |  |  | 60 |  |  | 90 |  |

What can I do at home to support my child?

- Skip count
- Chant the stations aloud, forwards and backwards
- Find a song on YouTube
- Learn the family of facts for each fact. Watch this video for more information on how fact families work.
- Use timestables.co.nz to practice
- Test your understanding at Prototec
- Make a set of flashcards and play matching or memory games.


## FACTS INEED TO KNOW

Three Times Table

| $0 \times 3=0$ | $0 \times 6=0$ | $0 \times 9=0$ |
| :--- | :--- | :--- |
| $1 \times 3=3$ | $1 \times 6=6$ | $1 \times 9=9$ |
| $2 \times 3=6$ | $2 \times 6=12$ | $2 \times 9=18$ |
| $3 \times 3=9$ | $3 \times 6=18$ | $3 \times 9=27$ |
| $4 \times 3=12$ | $4 \times 6=24$ | $4 \times 9=36$ |
| $5 \times 3=15$ | $5 \times 6=30$ | $5 \times 9=45$ |
| $6 \times 3=18$ | $6 \times 6=36$ | $6 \times 9=54$ |
| $7 \times 3=21$ | $7 \times 6=42$ | $7 \times 9=63$ |
| $8 \times 3=24$ | $8 \times 6=48$ | $8 \times 9=72$ |
| $9 \times 3=27$ | $9 \times 6=54$ | $9 \times 9=81$ |
| $10 \times 3=30$ | $10 \times 6=60$ | $10 \times 9=90$ |

This kete comes with six follow up tests.
A: $3 \times$ table facts out of order
C: $6 \times$ table facts out of order
E: $9 \times$ table facts out of order

B: $3 \times$ table division facts
D: $6 \times$ table division facts
F: $9 \times$ table division facts

## Kete 13

## W.A.L.T recall our times table facts for the 7 times table as well as the associated

| $\mathbf{X}$ | $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{0}$ |  |  |  |  |  |  |  | 0 |  |  |  |
| $\mathbf{1}$ |  |  |  |  |  |  |  | 7 |  |  |  |
| $\mathbf{2}$ |  |  |  |  |  |  |  | 14 |  |  |  |
| $\mathbf{3}$ |  |  |  |  |  |  |  | 21 |  |  |  |
| $\mathbf{4}$ |  |  |  |  |  |  |  | 28 |  |  |  |
| $\mathbf{5}$ |  |  |  |  |  |  |  | 35 |  |  |  |
| $\mathbf{6}$ |  |  |  |  |  |  |  | 42 |  |  |  |
| $\mathbf{7}$ | 0 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 |
| $\mathbf{8}$ |  |  |  |  |  |  |  | 56 |  |  |  |
| $\mathbf{9}$ |  |  |  |  |  |  |  | 63 |  |  |  |
| $\mathbf{1 0}$ |  |  |  |  |  |  |  | 70 |  |  |  |

## division facts.



What can I do at home to support my child?
$4 \times 7=28$

- Skip count
- Chant the stations aloud, forwards and backwards
- Find a song on YouTube
- Learn the family of facts for each fact. Watch this video for more information on how fact families work.
- Use timestables.co.nz to practice
- Test your understanding at Prototec
- Make a set of flashcards and play matching or memory games.


## FACTS I NEED TO KNOW

## Seven Times Table

$0 \times 7=0$
$1 \times 7=7$
$2 \times 7=14$
$3 \times 7=21$
$4 \times 7=28$
$5 \times 7=35$
$6 \times 7=42$
$7 \times 7=49$
$8 \times 7=56$
$9 \times 7=63$
$10 \times 7=70$

This kete comes with two follow up tests.

## Kete 14

## Extension

## In each kete test, you will be asked questions like...

| Test $A$ <br> Multiplying and <br> dividing by 10 | Test B <br> Multiplying and <br> dividing by 100 | Test $C$ <br> Multiplying and <br> dividing by 1000 | Test D <br> Tens in <br> $1,000-1,000,000$ | Test E <br> Hundreds in <br> $1,000-1,000,000$ |
| :--- | :--- | :--- | :--- | :--- |
| $1.23 \times 10=?$ | $1.27 \times 100=?$ | $1.345 \times 1000=?$ | 1.10 's in $41,633=?$ | 1.100 's in $41,633=?$ |
| $2.4590 \div 10=?$ | $2.33,200 \div 100=?$ | $2.62,000 \div 1000=?$ | 2.231 tens $=?$ |  |
| $3.638 \times 10=?$ | $3.34 \times 100=?$ | $3.125 \times 1000=?$ | 3.10 's in $22,415=?$ | 3.100 's in $22,415=?$ |
| $4.2760 \div 10=?$ | $4.9,800 \div 100=?$ | $4.321,500 \div 1000=?$ |  |  |

## Kete 15

## Extension

In each kete test, you will be asked questions like...

| Test A <br> 'Fives in' any number <br> to 50 | Test B <br> Multiplication facts <br> with missing addend | Test $C$ <br> Division facts with <br> missing addend | Squares and Square <br> Roots to 100 |
| :--- | :--- | :--- | :--- |
| 1.5 's in $41=8$ | $1.7 \times \ldots=42$ | $1.56 \div \ldots=7$ | $1 . \sqrt{64}=8$ |
| 2.5 's in $27=5$ | $2.9 \times \ldots=72$ | $2.36 \div \ldots=6$ | $2.7^{2}=49$ |
| 3.5 's in $33=6$ | $3.4 x_{\ldots-\ldots}=24$ | $3.32 \div \ldots=4$ | $3 . \sqrt{49}=7$ |

## Kete 16

## Extension

Decimal tenths and hundredths In each kete test, you will be asked questions like...

| Test A <br>  <br> less than to 1,000 | Test B <br> A hundredth more <br> \& less than to 1,00 | Test $C$ <br> How many <br> tenths <br> altogether | Test D <br> How many tenths <br> in a number | Test E <br> How many <br> hundredths <br> altogether | Test F <br> How many <br> hundredths in a <br> number |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1.347-0.1=346.9$ | $1.27+0.01=27.01$ | 1.71 tenths $=7.1$ | 1. tenths in $7.3=73$ | 1.423100 ths $=4.23$ | 1.100 ths in $4.57=457$ |
| $2.312 .9+0.1=313$ | $2.39-0.01=38.99$ | 2.24 tenths $=2.4$ | 2. tenths in $3.1=31$ | 2.231100 ths $=2.31$ | 2.100 ths in $4.82=482$ |

## Kete 17 <br> Extension

## Fractions, decimals and percentages

 In this kete, you will find examples like...| Test $A$ <br> Convert \% to fraction and <br> decimal | Test B <br> Convert fraction to decimal <br> and \% | Test C <br> Convert decimal to \% and <br> fraction |
| :--- | :--- | :--- |
| As a fraction: | As a decimal: | $1.3 / 4=0.75$ |
| $1.75 \%=3 / 4$ |  |  |
| $2.20 \%=2 / 10$ or $1 / 5$ | $2.8 / 10=0.8$ | As a fraction: |
| As a decimal: | As $a \%:$ | $1.0 .75=3 / 4$ or $75 / 100$ |
| $3.10 \%=0.1$ | $3.9 / 10=90 \%$ | $2.0 .8=8 / 10$ or $80 / 100$ |
| $4.30 \%=0.3$ | $4.6 / 10=60 \%$ | As a \%: |
|  |  | $3.0 .25=25 \%$ |

