MATHEMATICS

## BY THE END OF YEAR

## If your child is meeting the Mathematics Standard by the end of Year 7...

AT SCHOOL

... they will be working at early curriculum level 4, solving realistic problems using their growing understanding of number, algebra, geometry, measurement and statistics.

They will be solving problems using multiplication and division that use decimals, fractions and percentages. They will have a range of thinking strategies to help them investigate mathematics.

## To meet the standard your child will be learning to:

#### **Focus on number**

During Year 7, 40-60 percent of mathematics teaching time will focus on number learning.

- solve problems involving decimals, using addition and subtraction
- use a range of multiplication methods to solve problems using whole numbers and fractions
- investigate and justify mathematical rules to see if they are always true
- create tables, graphs and rules for repeating patterns
- sort 2D and 3D shapes and discuss their similarities and differences
- measure time and objects using standard measures
- find perimeters, areas and volumes of shapes
- identify and describe how objects have been moved within patterns
- use grid references, simple scales, and points of the compass to describe a given location
- investigate, sort and display information in different ways and identify patterns and variations in the information
- explore probability through experimenting and comparing actual results with expected results.

This is a small part of the skills and knowledge your child is learning in order to meet this standard. Talk to the teacher for more information about your child's learning.

#### Work together...

Help support your child's learning by building a good relationship with your child's teacher, finding out how your child is doing and working together to support their learning.

The Smith family and the Hohepa family are both driving home from their holidays.

#### Which family has travelled the greatest distance?







Both families have travelled 60km. For the Smith family I worked out 1/3 of 180 = 180 divided by 3 = 60. For the Hohepa family I worked out that 4/6 is the same as 2/3. so 2/3 of 90 = 90 divided by 3 x 2 = 60.



## SUPPORTING YOUR CHILD'S MATHEMATICS

# MATHEMATICS ATHOME

## Talk together and have fun with numbers and patterns

Help your child to:

- talk about sales in town 25% off, 30%, 10%, half price. Look for the best value and make a game of calculating the savings on items your child is interested in
- identify and describe how 2D shapes have been moved within kowhaiwhai and tukutuku panels, and how 3D shapes have been moved in carvings

budget pocket money and/or plan ahead to open a savings account. Talk about earning interest and investigate which bank account will give them the best return for their money

talk about current prices for sales of items that interest your child and investigate which store offers the best price.

Use easy, everyday activities

Involve your child in:

- cooking explore recipes and amounts of food and costs within a budget when catering for larger numbers e.g., school camp
- revising times tables check with your child/their teacher which tables you could help your child practise
- investigating which supermarket offers the best deal on petrol e.g., 4 cents off a litre.

Talk with your child's teacher to understand what they are learning about in mathematics and what the learning is in the homework they are doing.

#### Being positive about mathematics is really important for your child's learning – even if you didn't enjoy it or do well at it yourself at school. Encourage your child to find out more about mathematics at the library and on the Internet.

## For wet afternoons/school holidays/weekends

Get together with your child and:

play games – find a new board or card game that uses strategy



plan and budget the family holiday (or a day trip) – look at the best transport method in terms of time and money, accommodation, and activities to do. Use the Internet for finding out information

- guess how many times you use your cell phone a day/ week/month and predict the cost. Work out the best price, pre-paid versus a plan
- play travel games invent mathematics games to play walking with friends, travelling in the car, at the park
- Iplan for a family event, like a dinner. What is the cheapest option cooking at home or getting takeaways?
  - make bead necklaces and friendship bracelets calculate the cost of the materials needed and the time needed to make them. Is it cheaper to just buy them already made?
  - play outdoor and indoor games frisbee, touch rugby, netball, kilikiti, cricket, soccer, bowls, snooker and darts

build a fort – plan, design, collect the materials and build.

The way your child is learning to solve mathematics problems may be different to when you were at school. Get them to show you how they do it and support them in their learning.

#### Support your child...

As parents, family and whānau you play a big part in your child's learning every day, and you can support and build on what they learn at school too.

www.minedu.govt.nz/Parents