Diagnostic
TASK

FOCUS
Understand Operations
- Key Understanding 3
- Key Understanding 4

Calculator Number Sentences   Years/Grades 4–7

Purpose

To find out if children can choose the appropriate operation to solve a wide range of multiplication and divisions problems with a calculator.

Equipment

Worksheets and calculator for each child

Producing work samples

Individual interview

Ask the child if they would like to have the problems read to them or if they would prefer to read the problems themselves and write in the number sentence as they go. Remind them that it is not the answer to the problem but the number sentence they need to key into the calculator that is required.

Whole class activity

Read the problems to the students if they need this level of support. Remind them that it is not the answer to the problem but the number sentence they need to key into the calculator that is required. Note any trial and error approaches as above.

Some students may use a trial and error approach. Note those students who use trial and error to choose the operation, which operations they try and how they arrived at their final decisions.

Calculator Number Sentences

Name _____ Year/Grade _____ Date _____

What would you key into your calculator to solve these problems?

The burger place had a special $18 Family Feast Deal. It was packed with people. There were about 6 people at each table and there were about 36 tables. About how many people were there?	A bulk box of lolly snakes costs $5.40. There were 216 snakes in the box. If there were 27 students in the class and the snakes were given out, how many snakes would each child get?	The year 6's were selling cup cakes to raise funds for the school camp. The cakes cost $4.80 a box. The canteen had cooked 400 cakes and needed to put them into boxes of 8. How many boxes would they need?
Helen likes to ride 20 kilometres every day. She rides at an average speed of 5 kilometres per hour. How far does she ride in 3 hours?	Jeremy picked 6 bags of apricots. If a 3 kilo bag costs $12.60, what is the price per kilo?	Apricots cost $4.30 a kilo. If a sack of apricots cost $12.60 how much must it weigh?
Every week at B.M.X. each age group has 4 races. There were 6 times as many boys racing as girls. There were 18 girls and 36 parents. How many boys were there?	A picture, which has been enlarged three times its original size, is now 180 mm high. What was its original height?	There were 15 kids at the barbecue. One of the older kids hid some prizes. Simon found 30 prizes and his sister Sharn found 5. How many times more prizes did Simon find than Sharn?
John needed $2.00 to go to the T Ball disco. He had 4 pairs of shorts and 5 tops. How many outfits could he choose from	Sarah was planting corn. The seeds cost $2.50 a packet. She had 75 seeds and wanted to plant 15 rows. How many seeds in each row?	A rectangle of area of 208 sq metres has one side 16 metres long. How long is the adjacent side?