Today’s date: 

Given name: 

Family name: 

Organisation: 

Course: 

Gender: 

Date of birth: 

Is English your first language? 

If No, what is your first language? 

What ethnic group(s) do you belong to? 
(For example, New Zealand European, Māori, Samoan, Tongan.) 

Learner Identification (optional) 

NSN: 

SMS ID: 

Developed by NZCER and ACER
Instructions

This is an assessment of how well you understand numeracy problems.

The practice questions below help you to understand different sorts of numeracy questions. When you have finished the practice questions please turn the page and begin the assessment. You may need to wait for your tutor to tell you when to begin.

You need to choose the answer you think is best for each question. It is a good idea to read parts of the text again before choosing each answer.

Answer every question, even if you are not quite sure of the answer. If you change your mind about an answer, rub out the answer you chose and shade in your new answer. The questions are likely to get harder as you go through the book.

There is no time limit for the assessment. You will be given about 15 questions to answer.
1. How many cakes are in the cake tray?
   - A  10
   - B  11
   - C  12
   - D  13

2. How many trays do you need to bake 24 cakes at the same time?
   ___________ trays
3 You have 3 of these trays. How many cakes could you bake altogether?

_________ cakes

Show your calculations below.

4 Write these five numbers in order from smallest to largest.

Smallest __________ __________ __________ __________ __________ Largest

5 Are the numbers below larger than 20?

Circle Yes or No for each one.

A 7 Yes No
B 23 Yes No
C 31 Yes No
D 18 Yes No
Ben has just serviced his car. The odometer reading is 32,482 km. His next service is due after another 10,000 kilometres.

1. At what odometer reading is Ben's car due for its next service?

   A. 32,492 km
   B. 32,582 km
   C. 33,482 km
   D. 42,482 km
   E. 132,482 km
Lisa collects money from the cash registers at the end of a shift. She collects $650 in ten dollar notes.

2. How many ten dollar notes are in this amount?

_______________ ten dollar notes

Decimal addition and subtraction

3. $301.59 - 17.03 + 45.82$ equals

A. 60.11  
B. 238.74  
C. 330.11  
D. 330.38
John is laying tiles. He has already laid out three quarters \(\frac{3}{4}\) of the tiles.

What fraction of the tiles is left to be laid?

- A. \(\frac{1}{3}\)
- B. \(\frac{2}{3}\)
- C. \(\frac{1}{4}\)
- D. \(\frac{2}{4}\)
- E. \(\frac{3}{4}\)
This is a picture of some pills.

5 Which of these are correct ways to work out how many pills there are altogether?

Circle Yes or No for each one.

A \[2 + 5\] Yes No
B \[2 \times 5\] Yes No
C \[5 + 4\] Yes No
D \[5 \times 5\] Yes No
The height of a fence post on this gazebo is about 1 metre. This can be used to estimate the total height of the gazebo.

6 About how high is the gazebo?

A  1 metre
B  2 metres
C  3 metres
D  4 metres
E  5 metres
Who has the best estimate for what 2,881 – 375 is?

A  •  Anahera
B  •  Rongo
C  •  Aroha
D  •  Elisaia
Tanya is a hairdresser. She is making the client’s hair longer by putting in hair extensions. The hair extensions are 15 inches long.

8 What is 15 inches to the nearest centimetre?
(note: 1 inch = 2.54 centimetres)

A  5  B  6  C  30  D  38  E  45
Jacinda made a drink that used 6 apples and 4 oranges. She then makes some more drink using 12 oranges.

How many apples does she need?

A  2
B  8
C  10
D  14
E  18
Bill knows that 100 booklets weigh 12.4 kg.

10 How much does one booklet weigh?

A  1,240 kg
B  124 kg
C  1.24 kg
D  0.124 kg
E  0.0124 kg
F  0.00124 kg
11 Daniel bought 10 litres of unleaded petrol for his motorbike. How much did he pay? Give your answer to the nearest 10 cents.

$ _______________

12 Jodi bought 100 litres of diesel for her truck.

How much did she pay to the nearest 10 cents?

A  $141.00
B  $141.90
C  $142.00
D  $1,419.00
E  $1,420.00
A number is between 30 and 50. When that number is divided by either 4 or 5, there is no remainder.

What is the number?

_______________

Different multiplication methods

7 × 9 = 63
60 × 9 = 540
So the answer is 63 + 540

67 × 10 = 670
So the answer is 670 – 67

Two people were asked to calculate 67 × 9 in their heads without using pencil and paper or a calculator.

Who has a correct method of doing the exact calculation?

A  Just Aroha
B  Just Mohi
C  Both are correct
D  Neither are correct
Which of the following numbers should go in the box so that the two fractions add up to 1?

A  1
B  2
C  3
D  4
E  8
F  9
End of Assessment