

Numeracy

2024 Q1 Numeracy

Today's date:

Given name:

Family name:

Organisation:

Course:

Gender:

☐ Female

☐ Male

☐ Diverse

Date of birth:

Is English your first language?

☐ Yes

☐ No

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:

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.

Practice Unit



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.

12

15

14

13

11



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

Smallest _____ **Largest**



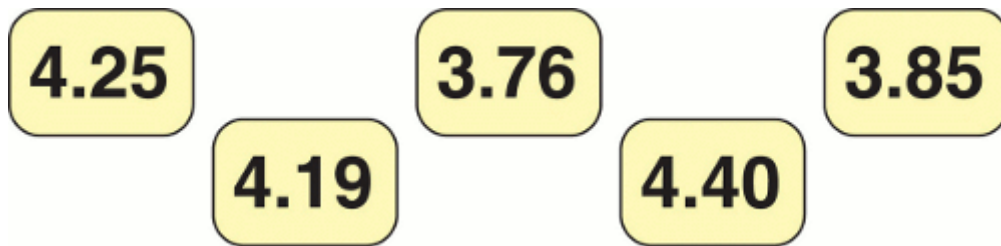
- 5 Are the numbers below larger than 20?

Circle Yes or No for **each one**.

A 7	Yes	No
B 23	Yes	No
C 31	Yes	No
D 18	Yes	No

END OF PRACTICE QUESTIONS

Decimal target 1



1 Which of these numbers is closest to 4.00?

- A ☐ 4.25
- B ☐ 4.19
- C ☐ 3.76
- D ☐ 4.40
- E ☐ 3.85

Which number?

2 Which number has five hundreds and four units (ones)?

- A ☐ 405
- B ☐ 450
- C ☐ 504
- D ☐ 540
- E ☐ 4005
- F ☐ 5004

Car tyre dollars



3 How many \$10 notes do you need to pay for the 4 tyres?

Housing interest rates

<i>Bank A</i>	<i>Bank B</i>
8.05% p.a.	8.11% p.a.

John purchased a new home. He is comparing housing loan interest rates.

4 What is the difference between the interest rates shown?

- A ☐ 0.05%
- B ☐ 0.06%
- C ☐ 0.14%
- D ☐ 0.16%
- E ☐ 0.6%

Decade



5 A decade is 10 years.
How many decades are in 710 years?

- A ☐ 1
- B ☐ 7
- C ☐ 71
- D ☐ 710
- E ☐ 7100

Fruit sales 1



- 6 Nicky buys a 3 kilogram bag of oranges using a \$20 note.
How much change does she get?

A ☐ \$9.10
B ☐ \$10.90
C ☐ \$11.00
D ☐ \$11.10
E ☐ \$12.10
F ☐ \$12.90



- 7 What is the cost of 1 kilogram of the apples?

A ☐ \$4.45
B ☐ \$4.90
C ☐ \$4.95
D ☐ \$5.00
E ☐ \$5.45

Shopping times 1

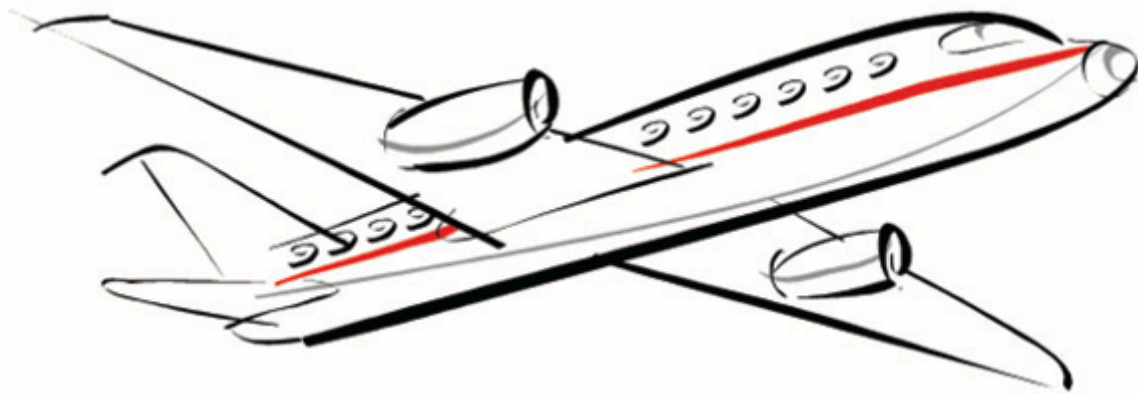


Sam started shopping at 2:15 pm. When she finished shopping she checked her watch and it showed the time above.

- 8 For how long had Sam been shopping?

_____ hour(s) _____ minute(s)

Flying to Napier

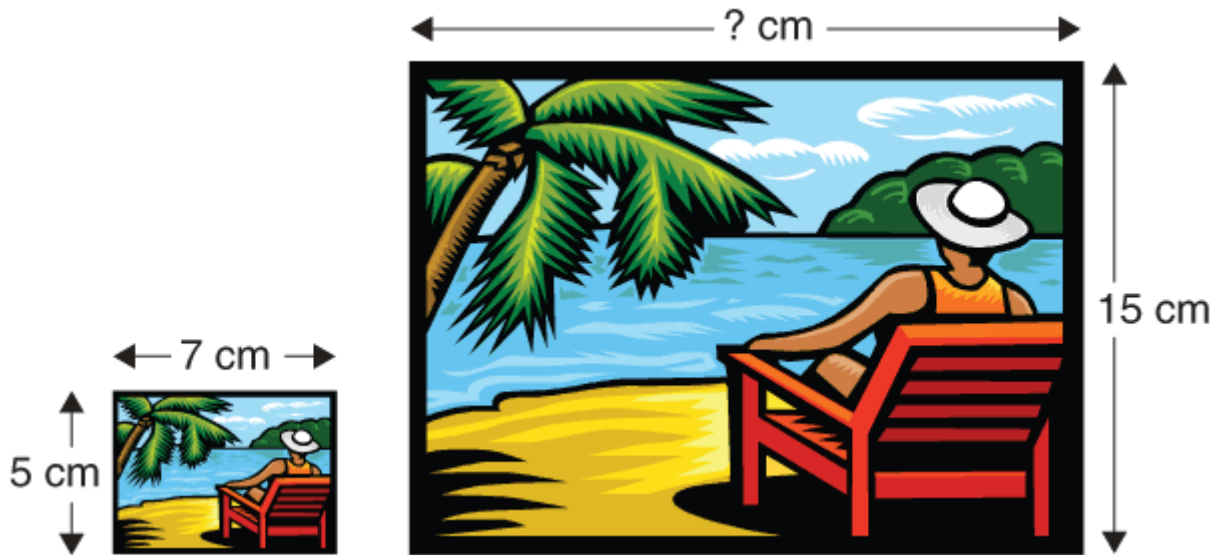


Jed's plane leaves Auckland at 10.25 am and reaches Napier at 11.20 am on the same day.

9 How many **minutes** does the flight take?

- A ☐ 45
- B ☐ 55
- C ☐ 65
- D ☐ 95
- E ☐ 115

Poster enlargement 1



Kahu used a photocopier to enlarge the picture on the left to make the poster on the right.

10 What is the length of the missing side of the poster in centimetres (cm)?

- A ☐ 9 cm
- B ☐ 10.5 cm
- C ☐ 17 cm
- D ☐ 21 cm
- E ☐ 35 cm

Milk for coffees



Lin has the amount of milk pictured for making coffee at his café. Each bottle contains **2** litres. Lin knows **1** litre of milk is enough for **8** coffees.

- 11** How many coffees can Lin make with this much milk?

_____ coffee(s)

Baby's health 4



A midwife has just delivered this baby. The midwife records the baby's heartbeat. In **10** seconds, the baby's heart beats **23** times.

- 12** What is the baby's heart rate, in beats per minute?
(note: 1 minute = 60 seconds)

_____ beats per minute

Show your working.

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CD Sale 2



- 13 Can the following methods be used to work out how many CDs you could buy for \$40?

Circle **Yes** or **No** for each one.

A $40 \div 5$	Yes	No
B $40 - 5$	Yes	No
C 40×5	Yes	No
D $40 \div 5$	Yes	No
E $5 + 5 + 5 + 5 + 5 + 5 + 5 + 5$	Yes	No

Composing decimals



- 14 Which number is made up of 5 lots of 0.01 plus 4 lots of 0.1?

- A ☐ 0.405
B ☐ 0.45
C ☐ 0.045
D ☐ 0.054
E ☐ 0.504
F ☐ 0.54

Fraction percents

15 Which fraction is the same as 60%?

- A ☐ $\frac{1}{2}$
- B ☐ $\frac{1}{6}$
- C ☐ $\frac{2}{3}$
- D ☐ $\frac{3}{5}$
- E ☐ $\frac{5}{8}$

END OF ASSESSMENT