NAPLAN
NATIONAL ASSESSMENT PROGRAM
Literacy and Numeracy

acara
AUSTRALIAN CURRICULUM, ASSESSMENT AND REPORTING AUTHORITY

YEAR 9 2017

NUMERACY
NON-CALCULATOR

FIRST NAME: _____

LAST NAME: _____

STUDENT TO COMPLETE

Please print your first name and last name in the boxes below. Write in capital letters.

FIRST NAME:

LAST NAME:

NOTE TO TEACHER - RECORDING STUDENT PARTICIPATION AND DISABILITY ADJUSTMENTS

Please ensure your school NAPLAN coordinator has provided you with a test participation roll for this test. The test participation roll must be printed from the NAPLAN Participation and Registration (PAR) website and used to record student participation and disability adjustments. At the end of the test session, the completed test participation roll must be handed to the NAPLAN coordinator so the data can be entered into PAR.

Disability adjustments

Tick the appropriate box on the test participation roll to indicate the disability adjustments accessed by the student for this test and to identify if the student is enrolled in a Support Class.

Student participation

Tick the appropriate box on the test participation roll if the student was absent, exempt, withdrawn or a sanctioned abandonment from this test.
Books for students in these categories MUST NOT BE RETURNED for processing.

PART B

10 min Time available for students to complete Part B: 10 minutes

Use lead pencil or black ballpoint pen only

5106774

YEAR 9 NUMERACY (NON-CALCULATOR)

1 There are 100 grams of raisins in a 500 gram packet of snack mix.

What percentage of the snack mix is made up of raisins?

- ○ 0.05%
- ○ 0.2%
- ○ 2%
- ○ 5%
- ○ 20%
- ○ 50%

2 The population of Mildura is approximately 48 000.

Which of these shows 48 000 in scientific notation?

4.8×10^3	4.8×10^4	4.8×10^5	4.8×10^6
○	○	○	○

3 Lydia is buying balloons for a party.

Each bag contains 8 balloons.

If she needs 100 balloons, how many bags will she need to buy?

4 Some motorbike engines run on a mixture of petrol and oil.

Directions for mixing the fuel for these engines are as follows:

> **For every 2 litres of petrol add 80 millilitres of oil.**

How many millilitres of oil should be added to 0.5 litres of petrol?

0.2 mL	0.8 mL	20 mL	40 mL	160 mL
○	○	○	○	○

5 Bob's Bakery reports a profit of $6405.70

Karen's Bakery reports a profit of $4070.95

How much more money did Bob's Bakery make than Karen's Bakery?

$ [   ]

6 $6 + (15 - 6 \times 2 + 1) = $ **?**

What number does **?** represent?

31	25	10	8
○	○	○	○

7 A store has 350 items for sale.

Of the 350 items, $\frac{5}{7}$ of them cost more than $21.

Of the items for sale that cost more than $21, $\frac{1}{5}$ cost more than $30.

How many items in the store cost more than $30?

[   ]

8 Kylie writes a pattern using indices.

1^1 2^2 3^3 4^4 5^5 6^6 7^7 8^8 9^9

What is the sum of the first four terms in Kylie's pattern?

$1^1 + 2^2 + 3^3 + 4^4 = $ [   ]

STOP – END OF TEST