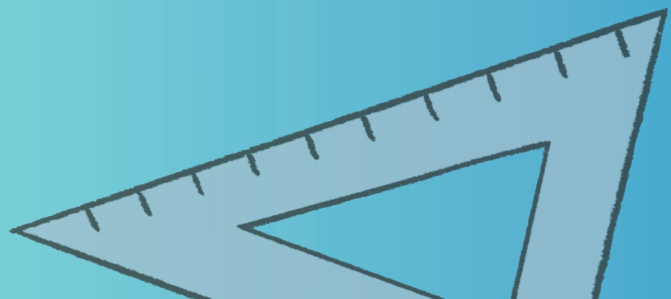
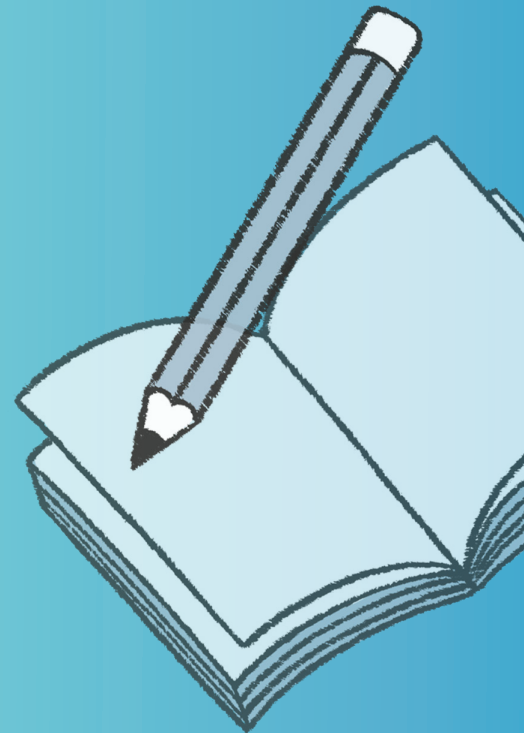
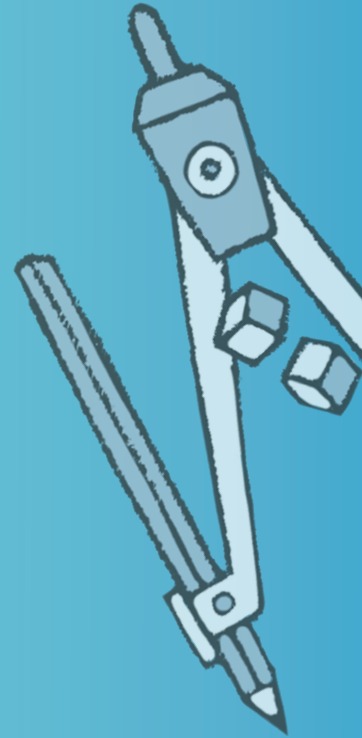




Mathletics

# NAPLAN Year 9 Numeracy Test 3 (Non-Calculator)



# Year 9 Numeracy Practice Test 3 – Non-calculator

## Student details

First name \_\_\_\_\_

Last name \_\_\_\_\_

Class \_\_\_\_\_ Date \_\_\_\_\_

## Test instructions

You have 40 minutes to complete this test.

You are **NOT allowed** to use a calculator.

You should use a pencil to write your answers or shade in the bubble.

If you make a mistake, rub it out thoroughly.

*Revised 2014 edition, all rights reserved. The following test has been designed by 3P Learning to prepare students for the National Assessment Program Numeracy Test. This test is to be used for revision purposes only. 3P Learning does not guarantee that the format of this test is the same as an actual test.*

- 1 In the following table, if you were to cross out the prime numbers as well as the odd numbers greater than 21, then what number would remain?

|    |    |    |    |
|----|----|----|----|
| 2  | 5  | 7  | 11 |
| 15 | 17 | 19 | 25 |
| 27 | 33 | 37 | 39 |

Write one number in the box.

- 2 Which one of the following numbers does not have 4, 5 and 6 as factors?

260      420      180      300      120  
                       

Shade one bubble.

- 3 Solve for  $x$ :  $\frac{10x - 1}{6} = 9$

-5.5      5.3      -27.5      11      5.5  
                       

Shade one bubble.

- 4  $\sqrt{6000}$  is between

60 and 70    70 and 80    65 and 75    50 and 60    80 and 90  
                       

Shade one bubble.

- 5 78% of a backyard is covered in lawn. The area of the lawn is  $39 \text{ m}^2$ . How big is the entire backyard?

$177.27 \text{ m}^2$      $30.42 \text{ m}^2$      $11 \text{ m}^2$      $50 \text{ m}^2$      $8.58 \text{ m}^2$   
                       

Shade one bubble.

- 6 50 000 adults and children attended a cricket match. If 32 000 were adults, what percentage were children?

%

Write the answer in the box.



- 7 In a certain town there are 6 adults for every 4 children. What is the total population if there are 640 children?

640      1000      1500      960      1600  
                       

Shade one bubble.



- 8 Which one of these numbers would be in the middle after being arranged in ascending order?

$1.5352 \times 10^6$        $0.15353 \times 10^7$        $1.5452 \times 10^5$        $15.4532 \times 10^5$        $1.5362 \times 10^6$   
                       

Shade one bubble.



- 9 Liam woke up at 7:36 am and went to bed that night 11:13 pm. How many minutes was Liam awake for?

983      960      937      877      997  
                       

Shade one bubble.



- 10 Akhil decides to save money for charity. On the first day he saves \$1, on the second day he saves \$2, on the third day he saves \$4, and each new day he saves double what he saved the day before. How much money does he save after one week?

\$

Write the answer in the box.




11  $11.372 - 1.693 = \boxed{?}$

- 8.679      9.679      9.671      10.671      10.679
- 

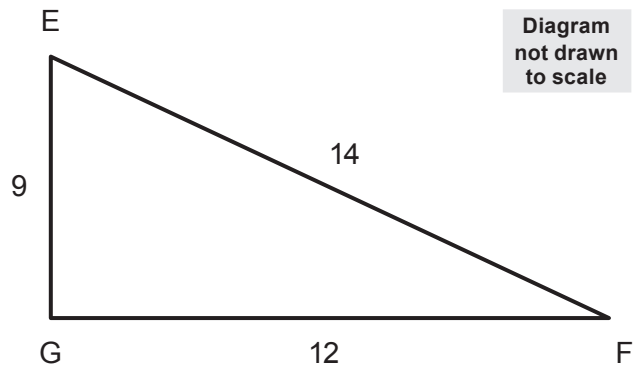
Shade one bubble. 

12  $32 \div 0.04 = \boxed{?}$

- 8      0.8      800      80      0.08
- 


Shade one bubble. 

13 Consider this triangle.




What can we say about angle  $\angle EGF$ ?

- Between  $0^\circ$  and  $90^\circ$
- Exactly equal to  $90^\circ$
- Between  $90^\circ$  and  $180^\circ$
- Exactly equal to  $180^\circ$
- Bigger than  $180^\circ$

Shade one bubble. 

14  $7x - 5(x - 3) =$

- $2x + 15$        $2x - 15$        $2x + 3$        $2x - 3$        $12x + 15$
- 

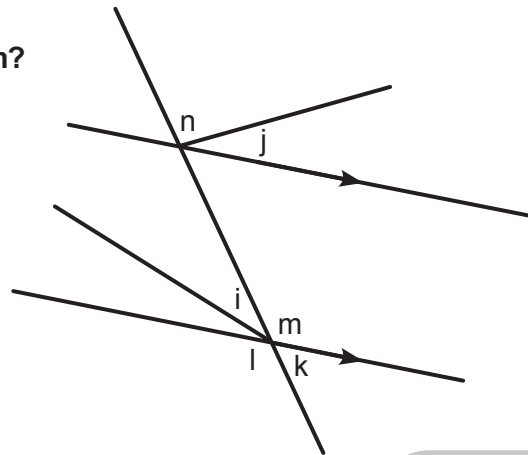
Shade one bubble. 

**15** A container contains green and yellow marbles. The ratio of green marbles to yellow marbles is 4:7. If there are 44 marbles in the container, how many yellow marbles are there?

- 16      28      4      7      11

Shade one bubble. 

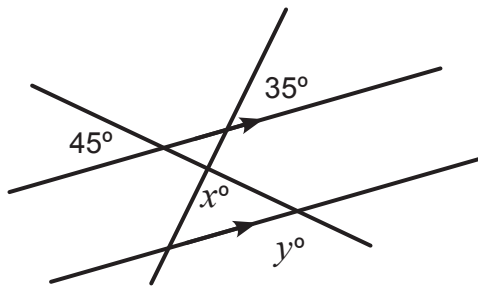
**16** Which angle is supplementary to  $m$ ?



- i      n      j      l      k

Shade one bubble. 

Use the following diagram for questions 17 and 18



**17** What is the size of angle  $y$ ?

- $180^\circ$        $145^\circ$        $35^\circ$        $135^\circ$        $45^\circ$

Shade one bubble. 

**18** What is the size of angle  $x$ ?

- $70^\circ$        $80^\circ$        $90^\circ$        $110^\circ$        $100^\circ$

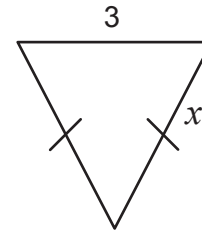
Shade one bubble. 

19 Which of these numbers is the largest?

- $1 \div 0.1$      $1 \times 0.1$      $10 \times 0.1$      $10 \div 0.1$      $100 \times 0.1$

Shade one bubble. 


20 The following Isosceles triangle has perimeter 11 cm. What is the value of  $x$ ?




- 5    8    4    14    2

Shade one bubble. 


21 Rania planted a garden using 4 different colours of flowers: red, blue, yellow and orange. If  $\frac{1}{3}$  of the flowers are red,  $\frac{1}{4}$  of the flowers are blue and  $\frac{1}{10}$  of the flowers are yellow, then how many flowers are orange?

Write the answer in the box. 

22 A school play is attended by adults and students. It costs \$5 for students and \$10 for adults. The total of all ticket sales was \$775. If 83 students attended, how many adults attended?


Write one number in the box. 

23 A parking lot can fit 4 cars for every 6 metres. If each floor is 120 metres long and there are 5 floors, how many cars are there when the parking lot is full?


Write one number in the box. 

24 Solve for  $x$ :  $\frac{12x - 9}{6} + 2x + 1 = 3x + 2$

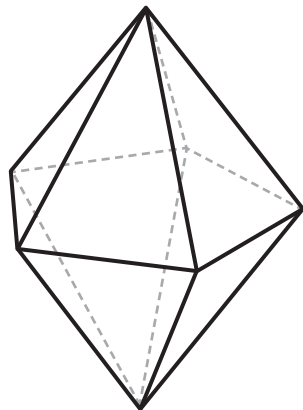
- 2.5      -5      3.5      -2      4.5
- 

Shade one bubble. 

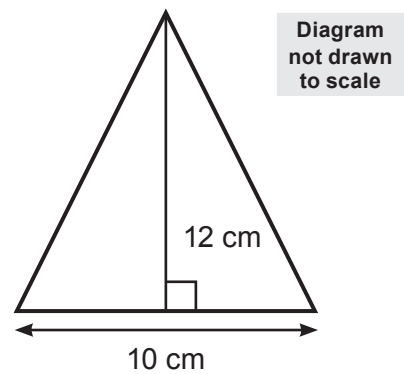
25 Sarah is 6 years older than triple Lisa's age. While Thanh is 2 years younger than half of Sarah's age. The total of Sarah's, Lisa's and Thanh's ages is 106. How old is Lisa?

Write one number in the box. 


26 What is the surface area of the following decahedron?



Each face of the decahedron looks like this:



- $60 \text{ cm}^2$        $120 \text{ cm}^2$        $600 \text{ cm}^2$        $1200 \text{ cm}^2$        $720 \text{ cm}^2$
- 

Shade one bubble. 

27 The following table represents a sports preference in a certain school. If a year is selected at random, what is the probability that there will be more tennis players than soccer players?

|        |         | Tennis | Soccer |
|--------|---------|--------|--------|
| Junior | Year 7  | 25     | 35     |
|        | Year 8  | 31     | 27     |
| Middle | Year 9  | 22     | 40     |
|        | Year 10 | 33     | 22     |
| Senior | Year 11 | 31     | 25     |
|        | Year 12 | 30     | 24     |

$\frac{172}{345}$

$\frac{2}{3}$

$\frac{1}{3}$

$\frac{173}{345}$

$\frac{172}{173}$

Shade one bubble.

28 Which of these expressions has the same value as  $3\sqrt{3} + 9$ ?

Shade one bubble.

$\sqrt{3}(\sqrt{9} + 3\sqrt{3})$

$\sqrt{3}(\sqrt{9} + 3)$

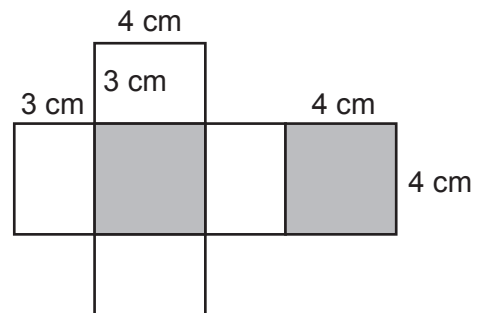
$3(\sqrt{9} + 3\sqrt{3})$

$\sqrt{3}(\sqrt{9} + \sqrt{3})$

$\sqrt{3}(3\sqrt{9} + 3\sqrt{3})$

29 The following is folded to form a rectangular box. What is the volume of this newly formed box?

Diagram not drawn to scale



$9 \text{ cm}^3$

$16 \text{ cm}^3$

$14 \text{ cm}^3$

$36 \text{ cm}^3$

$48 \text{ cm}^3$

Shade one bubble.

30 What is the ratio of the volume of a cube of side length 2 cm to the volume of a cube of side length 4 cm?

Shade one bubble.

1:2

2:1

1:4

4:1

1:8

END OF TEST