

Year 9 NAPLAN Numeracy Practice Test (Non-Calculator)

About this resource:

Year 9 NAPLAN Numeracy Practice Test – Non-Calculator. 32 questions, 40 minutes. This practice test follows the structure, question types and difficulty of the official NAPLAN Year 9 numeracy (non-calculator) papers. A calculator may not be used. Full worked solutions are provided in the accompanying solutions document.

About the author:

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*Ayman graduated VCE in 2021 with an ATAR of 98.10, achieving a 45 raw score in General Mathematics and 40+ raw all around. He is currently pursuing Dentistry at La Trobe University and **has been tutoring for 8+ years**. He is known for his kind and patient nature and ability to create a learning environment where students feel confident to ask questions and improve.*

Q1. Ben paid \$2.16 for 8 stickers.

How much did he pay for each sticker?

- A. \$0.24
- B. \$0.27
- C. \$2.08
- D. \$2.24

Q2. How many millimetres are in 4.7 metres?

- A. 47
- B. 470
- C. 4700
- D. 47 000

Q3. A movie runs for 145 minutes.

Lee starts watching the movie at 7:15 pm.

When will the movie finish?

- A. 8:40 pm
- B. 9:00 pm
- C. 9:40 pm
- D. 10:00 pm

Q4. Which of these is 28.365 rounded to 2 decimal places?

- A. 28.36
- B. 28.37
- C. 28.40
- D. 29.00

Q5. Maya and Jack were playing a quiz game.

They both started with zero points.

Maya's final score was 180 points. Jack's final score was – 45.

How many more points did Maya have than Jack?

- A. – 225
- B. – 135
- C. 135
- D. 225

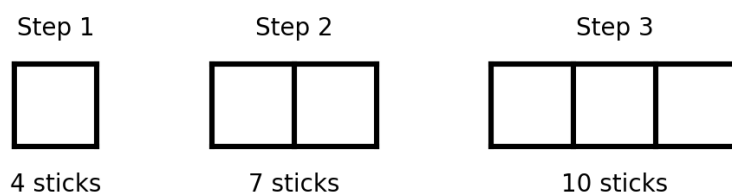
Q6. There were 26 people at a party.

The cost was \$18 per person, plus \$45 extra for the cake.

Which of these shows how to calculate the total cost of the party in dollars?

- A. $(45 + 18) \times 26$
- B. $(26 \times 18) + 45$
- C. $26 + 18 + 45$
- D. 26×45

Q7. Joan is making a pattern with sticks. She continues adding sticks as shown.



How many sticks will Joan need to make Step 7 of her pattern?

- A. 19
- B. 21
- C. 22
- D. 25

Q8. Which expression is equal to $4c^3$?

- A. $12 \times c$
- B. $7 \times c$
- C. $4 \times c \times c \times c$
- D. $4 + c + c + c$
- E. $4 \times 4 \times 4 \times c \times c \times c$

Q9. Which one of these fractions is greater than $\frac{5}{6}$?

- A. $\frac{4}{5}$
- B. $\frac{6}{7}$
- C. $\frac{7}{9}$
- D. $\frac{9}{11}$

Q10. A large block of land is divided into 15 equal-sized blocks as shown.

Sold	Sold	Sold		Sold
Sold	Sold		Sold	Sold
Sold	Sold	Sold		Sold

What percentage of the large block has been sold?

- A. 12%
- B. 75%
- C. 80%
- D. 85%

Q11. In a school library there are 1200 books.

500 of the books are fiction and the rest are non-fiction.

What is the ratio of fiction to non-fiction books in the library?

- A. 5 : 7
- B. 5 : 12
- C. 7 : 5
- D. 12 : 5

Q12. Write the answer to this division in the box.

$15.12 \div 0.12 =$

Q13. In the past month, five houses were sold in Liam's neighbourhood.

The selling price for each house is listed below.

\$310 000, \$290 000, \$450 000, \$290 000, \$520 000

What was the median selling price for these five houses?

- A. \$290 000
- B. \$310 000
- C. \$372 000
- D. \$450 000

Q14. A square pool for small children has sides which are 4 metres long.

One cubic metre can hold 1000 litres of water.

How many litres of water will fill the pool to a depth of 50 centimetres?

litres

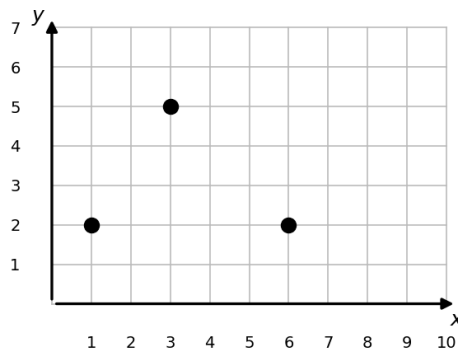
Q15. Dean uses the same rule to change each input number into an output number.

Input	2	3	5
Output	7	10	16

Which of these rules did Dean use?

- A. $\text{output} = \text{input} \times 2 + 3$
- B. $\text{output} = \text{input} \times 3 + 1$
- C. $\text{output} = \text{input} \times 4 - 1$
- D. $\text{output} = \text{input} \times 5 - 3$

Q16. This graph shows three corners of a parallelogram.



Which of these points is the fourth corner?

- A. (4, 5)
- B. (6, 5)
- C. (8, 2)
- D. (8, 5)

Q17. Which expression is equal to $7y - 5 + 2y + 9$?

- A. $5y + 14$
- B. $9y - 4$
- C. $9y + 4$
- D. $13y$

Q18. Sally has 8 hens.

In total they drink about 2.4 litres of water each day.

Approximately how much water would each hen drink in one week?

- A. 0.3 litres
- B. 2.1 litres
- C. 16.8 litres
- D. 19.2 litres

Q19. Meg has an electronic photo display.

Each photo remains on the screen for 12 seconds.

Meg has 80 photos on her memory card.

How many minutes will it take to display all of the photos?

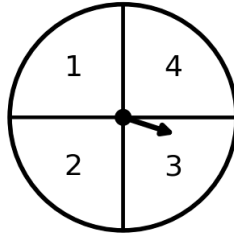
minutes

Q20. Simplify: $(2^5 \times 3^2 \times 7) \div (2^3 \times 3 \times 7)$

- A. 6
- B. 12
- C. 24
- D. 36

Q21. This spinner is spun twice.

The two numbers that the arrow lands on are added.



Which of these totals is most likely to occur?

- A. 2
- B. 4
- C. 5
- D. 8

Q22. The diameter of a grain of pollen is 0.000 42 metres.

Which of these shows the diameter in scientific notation?

- A. 4.2×10^{-5}
- B. 4.2×10^{-4}
- C. 4.2×10^4
- D. 4.2×10^5

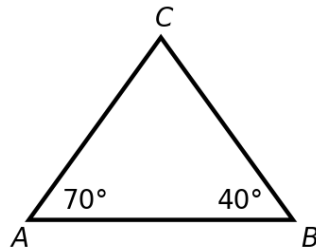
Q23. Half of Caleb's money is equal to one-third of Ellie's money.

Together they have \$45.

How much money does Ellie have?

dollars

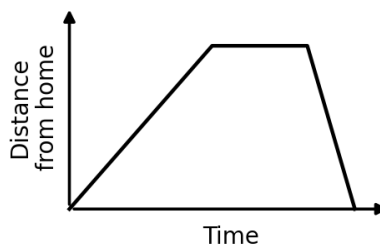
Q24. The angles of triangle ABC are shown below.



Select the statement that is true about triangle ABC.

- A. Triangle ABC is a scalene triangle.
- B. Triangle ABC is an isosceles triangle.
- C. Triangle ABC is an equilateral triangle.
- D. Triangle ABC is a right-angled triangle.

Q25. This graph shows Ana's distance from home during one afternoon.



Which of the following stories best fits the graph above?

- A. Ana rode to the shops, bought some milk and rode home at the same speed.
- B. Ana walked to the park, rested for a while and then ran home.
- C. Ana ran to the park, rested for a while and then walked home.
- D. Ana walked to the park, rested for a while and then walked home at the same speed.

Q26. 120 students were asked how they travel to school.

	Walk	Ride	Total
Year 8	18	42	60
Year 9	24	36	60
Total	42	78	120

A Year 9 student is selected at random.

What is the probability that this student walks to school?

- A. 0.20
- B. 0.35
- C. 0.40
- D. 0.57

Q27. Dylan and Priya are saving money for a concert.

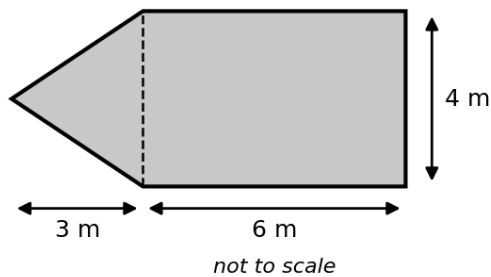
Dylan has \$240 and plans to save \$15 each week.

Priya has \$180 and plans to save \$25 each week.

After how many weeks will Dylan and Priya have saved the same amount?

weeks

Q28. A plan of the lawn in Pat's backyard is shown.



Pat wants to fertilise the lawn and needs to know the total area.
What is the total area of Pat's lawn, in square metres?

 m^2

Q29. Lisa measured the temperature of a substance every 5 minutes.

- The first measurement was -1.5°C .
- The second measurement was 2.5°C .
- For the third measurement, the temperature had increased by double the previous increase.

What was the third measurement?

 $^\circ\text{C}$

Q30. Connor travelled from home to a country town.

The 180-kilometre drive took 2 hours.

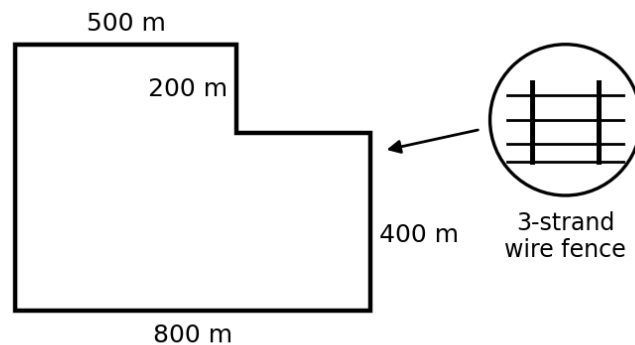
He returned home by the same route.

The return drive took 2 hours and 30 minutes.

What was Connor's average speed for the whole journey?

 kilometres per hour

Q31. A new fence is to be built around the perimeter of this paddock.
The fence is to have 3 strands of wire as shown.

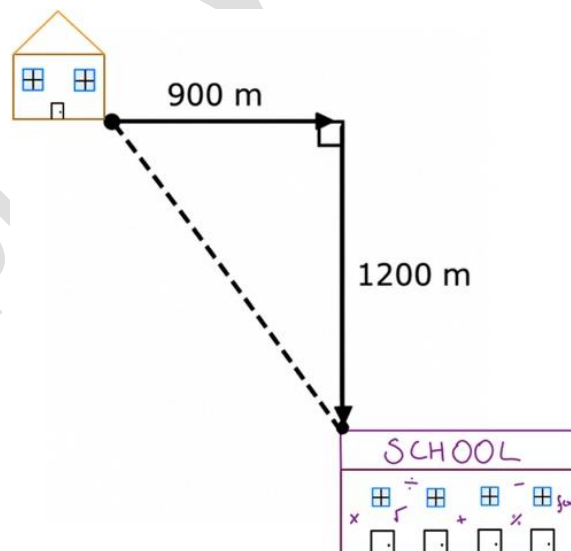


How many kilometres of wire are needed?

kilometres

Q32. Mona can walk from home to school following the roads, or she can cut across a vacant block as shown in the diagram below.

Along the roads she walks 900 metres east and 1200 metres south.



How many metres less does she walk by going across the vacant block?

m