

Year 7 NAPLAN Numeracy Practice Test (Calculator Allowed)

About this resource:

Year 7 NAPLAN Numeracy Practice Test – Calculator Allowed. 32 questions, 40 minutes. This practice test follows the structure, question types and difficulty of the official NAPLAN Year 7 numeracy (calculator allowed) papers. 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. A school bought 6 identical laptops for a total cost of \$4617.

Each laptop cost the same amount.

How much did each laptop cost?

- A. \$769.50
- B. \$780.50
- C. \$4611
- D. \$27702

Q2. The table shows the population of two Australian states.

State	Population
Queensland	5 221 000
South Australia	1 803 000

How many more people lived in Queensland than in South Australia?

- A. 3 318 000
- B. 3 418 000
- C. 3 422 000
- D. 4 418 000

Q3. What is the value of 14^3 ?

- A. 70
- B. 19
- C. 2744
- D. 196

Q4. A stack of drink coasters is 87.5 millimetres high.

Each coaster is 2.5 millimetres thick.

How many coasters are in the stack?

- A. 33
- B. 35
- C. 85
- D. 90

Q5. Which one of these solids has exactly 8 faces?

- A. a cube
- B. a triangular prism
- C. a square pyramid
- D. a hexagonal prism

Q6. Kim wants to bake 9 batches of muffins.

Each batch needs 5 eggs. She has no eggs, so she goes to the shop.

The shop sells eggs in cartons of 12.

How many cartons of eggs does Kim need?

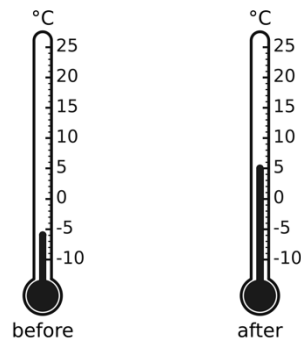
- A. 3
- B. 4
- C. 5
- D. 9

Q7. Which number is missing from this number sentence?

$$(98.4 - 18.4) \times ? = 340.8$$

- A. 3.55
- B. 4.26
- C. 18.44
- D. 42.6

Q8. A thermometer was read in the morning and again in the afternoon.



How much warmer was it in the afternoon?

- A. 1 °C
- B. 6 °C
- C. 11 °C
- D. 30 °C

Q9. Harper's school is 3 kilometres from her home.

She walks there at a steady speed of 6 kilometres per hour.

How many minutes does the walk take?

- A. 18
- B. 20
- C. 30
- D. 50

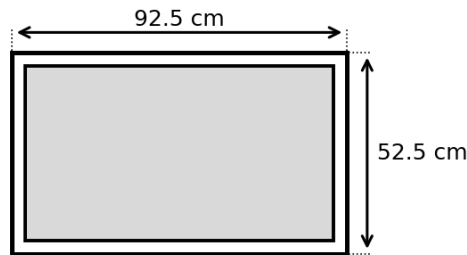
Q10. Marco is paid the same amount each month.

In a year he earns \$54 600.

How much does he earn in 8 months?

- A. \$6 825
- B. \$36 400
- C. \$43 680
- D. \$46 800

Q11. The diagram shows the length and width of a whiteboard.



What is the area of the whiteboard?

- A. 145 square centimetres
- B. 2 856.25 square centimetres
- C. 4 856.25 square centimetres
- D. 8 556.25 square centimetres

Q12. During a single jump, a skater made 4 full rotations of her body.

By how many degrees did the skater rotate her body in this jump?

- A. 360°
- B. 720°
- C. 1080°
- D. 1440°

Q13. A young tree grew 84 centimetres in one year.

On average, about how many centimetres did the tree grow per day?

- A. 0.23 cm
- B. 0.7 cm
- C. 2.3 cm
- D. 7 cm

Q14. The opening hours of a hardware store are shown on this sign.

OPENING HOURS
Monday - Saturday
8 am - 6 pm

How many hours each week is the store open?

- A. 50
- B. 60
- C. 70
- D. 84

Q15. A starting gun was fired at an athletics carnival.

A spectator was 250 metres from the gun.

If the sound travelled at 340 metres per second, how many seconds did the sound take to reach the spectator?

- A. 0.735
- B. 1.36
- C. 2.35
- D. 85

Q16. Ben has a bag of \$1 and \$2 coins.

The total mass of the coins is 62.4 grams.

Ben knows that the mass of a \$1 coin is 9 grams and the mass of a \$2 coin is 6.6 grams.

What is the total value of the coins in the bag?

dollars

Q17. The table below lists the original price and the discount on the same pair of headphones at four different shops.

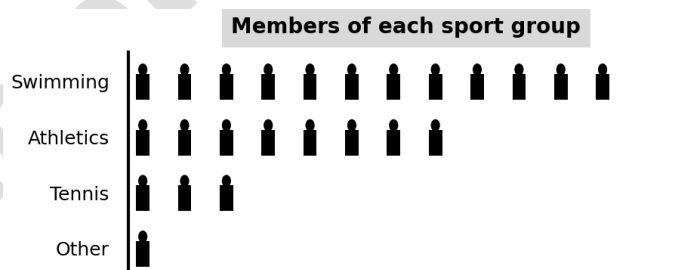
Shop	Original price	Discount
A	\$40	25%
B	\$36	$\frac{1}{3}$
C	\$50	30%
D	\$32	\$6 off

Which shop has the lowest sale price for the headphones?

- A. Shop A
- B. Shop B
- C. Shop C
- D. Shop D

Q18. Oliver found this graph pinned to a noticeboard.

No key had been printed with it.

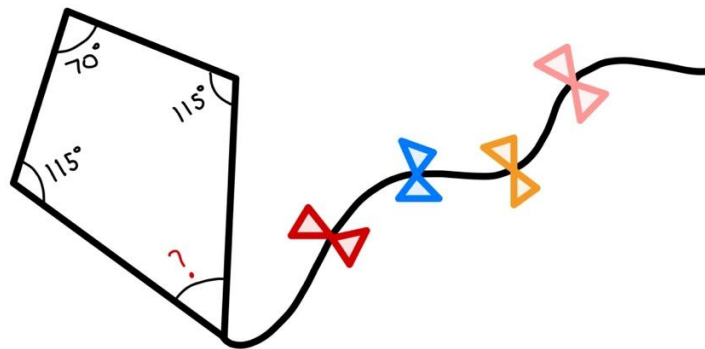


Altogether the four groups had 96 members.

How many members does each symbol stand for?

- A. 2
- B. 3
- C. 4
- D. 6

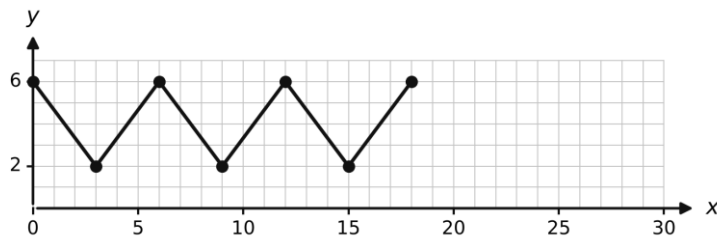
Q19. Matthew is trying to figure out how big each of the angles are inside his kite.



What is the size of the missing angle?

- A. 50°
- B. 60°
- C. 70°
- D. 80°

Q20. Noah is drawing a repeating zigzag pattern on this grid.



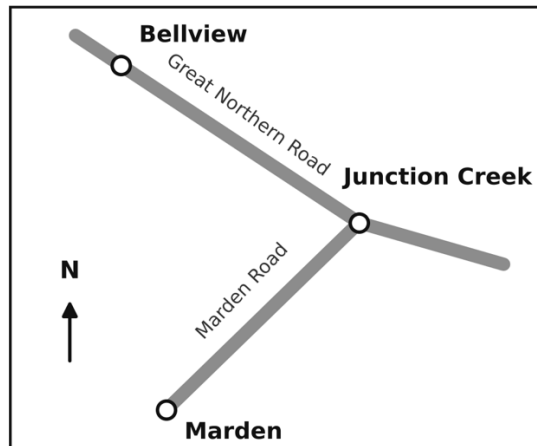
If the pattern continues, which of these points will lie on Noah's pattern?

- A. (21, 2)
- B. (22, 6)
- C. (20, 4)
- D. (24, 2)

**Q21. The hour hand of a clock moves from 2 o'clock to 7 o'clock.
Through how many degrees does the hour hand turn?**

degrees

Q22. This is a map of three towns.



Tom is at Bellview.

Which of these directions should Tom follow to get to Marden?

- A. Go south-east to Junction Creek, then turn left.
- B. Go south-east to Junction Creek, then turn right.
- C. Go south-west to Junction Creek, then turn left.
- D. Go south-west to Junction Creek, then turn right.

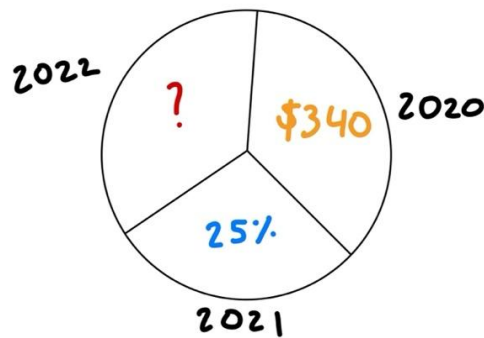
Q23. Kim is 5 years younger than Ali.

Ali is 3 years older than half of Nina's age.

The sum of all three ages is 57.

How old is Kim?

**Q24. Leo spent \$800 on sporting equipment over a 3-year period.
The pie chart shows how the money was divided.**



How much did he spend on sporting equipment in 2022?

- A. \$200
- B. \$240
- C. \$260
- D. \$300

Q25. A bag contains counters. 40% of them are green.

Priya takes out a red counter and keeps it.

She then takes another counter from the bag without looking.

What is the chance that this counter is green?

- A. less than 40%
- B. equal to 40%
- C. greater than 40%

Q26. A school choir has more than 30 members.

When the members are arranged in groups of 6, there are 5 members left over.

When they are arranged in groups of 4, there are 3 members left over.

What is the least number of members that could be in the choir?

Q27. A smoothie bar sells small and large smoothies.

A large smoothie costs 1.5 times the price of a small smoothie.

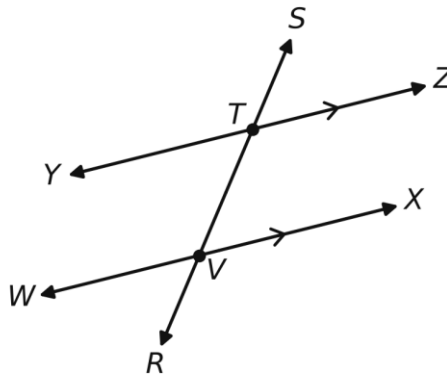
A group bought 3 large and 3 small smoothies for a total of \$22.50.

How much did one small smoothie cost?

- A. \$2.50
- B. \$3.00
- C. \$3.75
- D. \$4.50
- E. \$5.00

Q28. Lines WX and YZ are parallel.

Line RS intersects lines WX and YZ as shown.

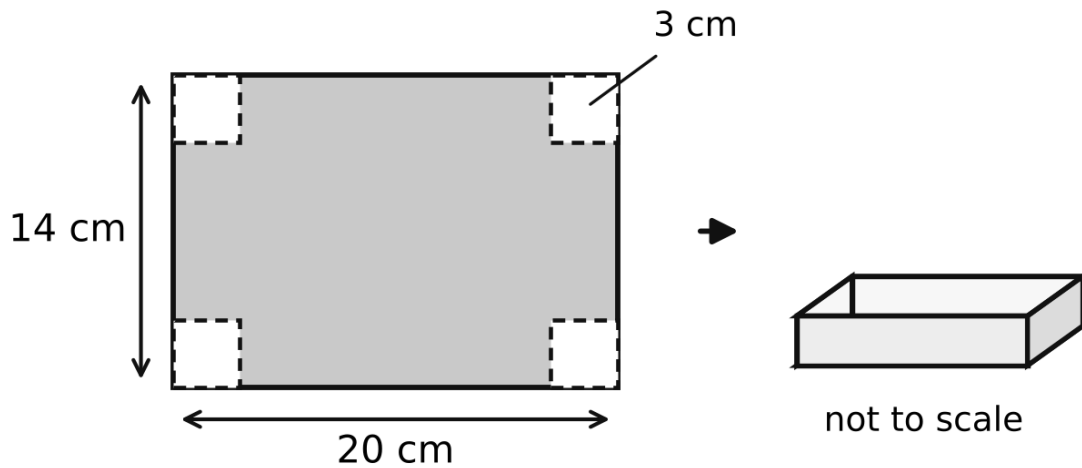


Which pair of angles are equal?

- A. $\angle ZTS$ and $\angle ZTR$
- B. $\angle ZTV$ and $\angle XVT$
- C. $\angle STY$ and $\angle STZ$
- D. $\angle RTZ$ and $\angle RVX$

Q29. A rectangular sheet of metal measures 20 cm by 14 cm.

A 3 cm square is removed from each corner and the flaps are bent upwards to form an open tray.



What is the volume of the tray?

- A. 112 cm^3
- B. 336 cm^3
- C. 448 cm^3
- D. 561 cm^3
- E. 840 cm^3

Q30. Zara and Jai are playing a board game.

They have two standard 6-sided dice. The dice are different sizes.

Zara needs to roll a total of 11 to win.

There are two different ways she can roll a total of 11, as shown.

$$\begin{array}{|c|} \hline \cdot \\ \hline \cdot \\ \hline \cdot \\ \hline \end{array} + \begin{array}{|c|} \hline \cdot \cdot \\ \hline \cdot \cdot \\ \hline \cdot \cdot \\ \hline \end{array} = 11, \text{ and } \begin{array}{|c|} \hline \cdot \cdot \cdot \\ \hline \cdot \cdot \cdot \\ \hline \cdot \cdot \cdot \\ \hline \end{array} + \begin{array}{|c|} \hline \cdot \\ \hline \cdot \\ \hline \cdot \\ \hline \end{array} = 11$$

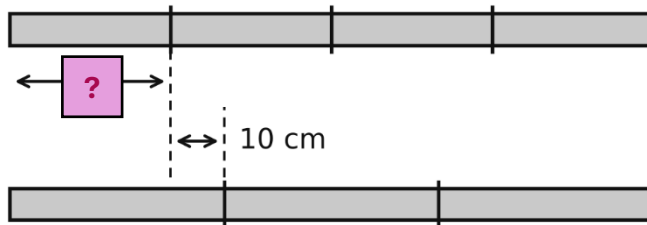
Jai has to roll a total of 8 to win.

How many different ways can Jai roll a total of 8?

Q31. Elena had two identical lengths of plastic pipe.

She cut one into four equal pieces and the other into three equal pieces.

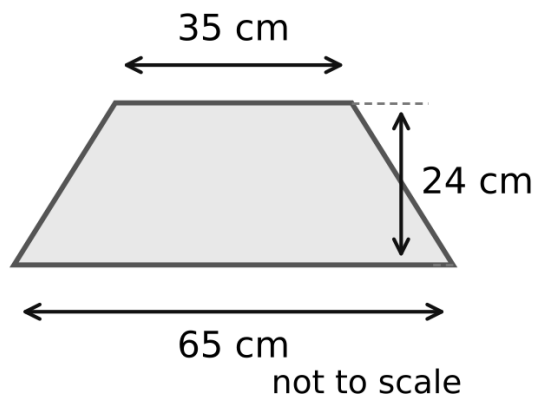
Each longer piece was 10 cm longer than each shorter piece, as shown.



How long is one short piece of pipe?

cm

Q32. This concrete paving stone is in the shape of a trapezium.



What is the area of the paving stone?

cm²