

Year 7 NAPLAN numeracy practice test

30 questions in NAPLAN's question styles, Australian Curriculum Year 7. Time: 45 minutes. Questions 1 to 22: calculator allowed. Questions 23 to 30: no calculator. Circle one answer for each question. Answers with explanations are on the last page: mark it with your child afterwards.

Science with Shobha · sciencewithshobha.com/subjects/naplan/ · free 30-minute 1-on-1 demo class on WhatsApp +91 72720 00205

1. $-8 + 5 = ?$

- A. -13
- B. -3
- C. 3
- D. 13

2. $7 - (-4) = ?$

- A. 3
- B. -11
- C. 11
- D. -3

3. $3 + 4 \times 5 = ?$

- A. 35
- B. 23
- C. 27
- D. 60

4. 0.6 written as a fraction in simplest form is

- A. $\frac{6}{10}$
- B. $\frac{3}{5}$
- C. $\frac{6}{100}$
- D. $\frac{2}{3}$

5. 45% of 80 = ?

- A. 35
- B. 36
- C. 40
- D. 45

6. Two amounts are in the ratio 3 : 5 and add to 40. What is the smaller amount?

- A. 15
- B. 25
- C. 8
- D. 24

7. A \$60 shirt is reduced by 25%. What is the sale price?

- A. \$35
- B. \$45
- C. \$48
- D. \$15

8. Which is the better buy: 500 g for \$4.00 or 750 g for \$5.70?

- A. 500 g pack
- B. 750 g pack
- C. They cost the same per gram
- D. It cannot be worked out

9. Simplify $4a + 3b - a + 2b$

- A. $3a + 5b$
- B. $5a + 5b$
- C. $3a + b$
- D. $7ab$

10. Solve $3x + 4 = 19$

- A. $x = 5$
- B. $x = 7$
- C. $x = 15$
- D. $x = 23/3$

11. What is the value of $2n - 3$ when $n = 7$?

- A. 11
- B. 14
- C. 4
- D. 17

12. A triangle has base 10 cm and height 6 cm. Its area is

- A. 60 cm^2
- B. 30 cm^2
- C. 16 cm^2
- D. 32 cm^2

13. A box is 5 cm by 4 cm by 3 cm. Its volume is

- A. 12 cm^3
- B. 60 cm^3
- C. 47 cm^3
- D. 94 cm^3

14. A parallelogram has sides of 7 cm and 4 cm. Its perimeter is

- A. 11 cm
- B. 22 cm
- C. 28 cm
- D. 14 cm

15. Two straight lines cross. One of the angles is 35° . The angle vertically opposite it is

- A. 35°
- B. 55°
- C. 145°
- D. 325°

16. The point $(-3, 2)$ is in which quadrant?

- A. First
- B. Second
- C. Third
- D. Fourth

17. The mean of 4, 8, 5, 7, 6 is

- A. 5
- B. 6
- C. 7
- D. 30

18. The median of 3, 9, 4, 8, 6 is

- A. 4
- B. 6
- C. 8
- D. 9

19. The range of 12, 5, 9, 20, 7 is

- A. 15
- B. 12
- C. 20
- D. 8

20. A fair die is rolled once. The probability of a number greater than 4 is

- A. $\frac{1}{3}$
- B. $\frac{1}{2}$
- C. $\frac{2}{3}$
- D. $\frac{1}{6}$

21. $\sqrt{81} + 2^3 = ?$

- A. 17
- B. 89
- C. 15
- D. 20

22. A car travels 180 km in 2.5 hours. Its average speed is

- A. 72 km/h
- B. 90 km/h
- C. 60 km/h
- D. 450 km/h

23. $\frac{2}{3} + \frac{1}{6} = ?$

- A. $\frac{3}{9}$
- B. $\frac{5}{6}$
- C. $\frac{1}{2}$
- D. $\frac{3}{6}$

24. $0.25 \times 12 = ?$

- A. 3
- B. 4
- C. 30
- D. 0.3

25. 15% of 200 = ?

- A. 15
- B. 30
- C. 3
- D. 20

26. $-4 \times (-6) = ?$

- A. -24
- B. 24
- C. -10
- D. 10

27. $5^2 - 3^2 = ?$

- A. 4
- B. 16
- C. 34
- D. 64

28. $12.5 \div 0.5 = ?$

- A. 6.25
- B. 25
- C. 2.5
- D. 62.5

29. Simplify $6x \div 2$

- A. $3x$
- B. $4x$
- C. 3
- D. $12x$

30. Round 3.4567 to two decimal places

- A. 3.45
- B. 3.46
- C. 3.5
- D. 3.457

Answers · Year 7 NAPLAN numeracy practice test

1. **B** -3 — Start at -8 and count up 5: -3.
2. **C** 11 — Subtracting a negative is adding: $7 + 4 = 11$.
3. **B** 23 — Multiply first: $4 \times 5 = 20$, then $3 + 20 = 23$.
4. **B** $\frac{3}{5}$ — $0.6 = \frac{6}{10} = \frac{3}{5}$.
5. **B** 36 — $0.45 \times 80 = 36$.
6. **A** 15 — 8 parts = 40, one part = 5, so 3 parts = 15.
7. **B** \$45 — 25% of 60 is 15; $60 - 15 = 45$.
8. **B** 750 g pack — Per 100 g: 80c against 76c.
9. **A** $3a + 5b$ — $4a - a = 3a$; $3b + 2b = 5b$.
10. **A** $x = 5$ — $3x = 15$, so $x = 5$.
11. **A** 11 — $2 \times 7 - 3 = 11$.
12. **B** 30 cm^2 — Half of base $\times$ height: $\frac{1}{2} \times 10 \times 6 = 30$.
13. **B** 60 cm^3 — $5 \times 4 \times 3 = 60$.
14. **B** 22 cm — $7 + 4 + 7 + 4 = 22$.
15. **A** 35° — Vertically opposite angles are equal.
16. **B** Second — x negative, y positive: top left, the second quadrant.
17. **B** 6 — Total 30, five numbers, $30 \div 5 = 6$.
18. **B** 6 — In order: 3, 4, 6, 8, 9; the middle value is 6.
19. **A** 15 — Largest - smallest: $20 - 5 = 15$.
20. **A** $\frac{1}{3}$ — 5 and 6: 2 of 6 outcomes = $\frac{1}{3}$.
21. **A** 17 — $9 + 8 = 17$.
22. **A** 72 km/h — $180 \div 2.5 = 72$.
23. **B** $\frac{5}{6}$ — $\frac{2}{3} = \frac{4}{6}$; $\frac{4}{6} + \frac{1}{6} = \frac{5}{6}$.
24. **A** 3 — A quarter of 12 is 3.
25. **B** 30 — 10% is 20, 5% is 10, total 30.
26. **B** 24 — Negative $\times$ negative = positive.
27. **B** 16 — $25 - 9 = 16$.
28. **B** 25 — How many halves in 12.5: 25.
29. **A** $3x$ — $6 \div 2 = 3$, keep the x.
30. **B** 3.46 — The third decimal is 6, so round up: 3.46.

Score out of 30: _____ 26–30 comfortable · 20–25 solid, fix the wobbling topic · 13–19 gaps in the Year 7 strand · under 13 start a year lower.

Bring the marked test to a free 30-minute demo class and we will tell you which topics to fix first:
sciencewithshobha.com/subjects/naplan/