Maths Grade 6 — Practice Exam 1 — Answers & Explanations

Answers to the 15 questions in the free preview.

Numeracy

1. C. 10

Dawn was −6 °C and noon was 4 °C. From −6 up to 0 is 6 degrees, and from 0 up to 4 is 4 more, so the rise is 10 degrees. Answering 2 just finds the difference between 6 and 4.

2. D. 1.5

The pattern goes 2.4, 2.1, 1.8, 1.5, so the fourth number is 1.5. The answer 1.8 is the third number.

3. C. $36

25% is one quarter, and a quarter of $48 is $12. The sale price is $48 − $12 = $36. Taking $25 off gives $23, which treats 25% as $25.

4. B. B

The first coordinate is across: −2 is 2 units left of zero. The second is up: 3 units up. That is point B. Point A is (2, 3).

5. A. 29

29 has only two factors, 1 and 29, so it is prime. 21 = 3 × 7, 27 = 3 × 9 and 33 = 3 × 11 all have other factors.

6. Answer: 81

Each side is 36 ÷ 4 = 9 cm, so the area is 9 × 9 = 81 cm².

7. Answer: 68°

Angles on a straight line add to 180°. a = 180 − 112 = 68°.

8. C. Getting 14 heads in 20 tosses is possible with a fair coin.

Results of a small number of trials vary, so 14 heads can happen with a fair coin. Each toss is still a 50–50 chance, whatever came before.

9. C. What is your height, in centimetres?

Height is measured and can take any value in a range, so it is continuous. The number of pets is counted, so it is discrete.

10. A. 1 1/4

Each whole is split into 4 equal parts, so each mark is 1/4. P is one mark past 1, which is 1 1/4.

11. Answer: 270 km

One fifth of 450 km is 90 km, so three fifths is 3 × 90 = 270 km.

12. D. 20%

There are 20 balls and 4 are red, so the probability is 4/20 = 1/5 = 20%.

13. C. $68.00

20% of $85 is $17, and $85 − $17 = $68. $17 is the discount, not the sale price.

14. Answer: −$17

She paid $17 more than she had: 23 − 40 = −17. Her account is overdrawn, and the balance is −$17.

15. Answer: 30

The bottom layer holds 5 × 3 = 15 cubes, and there are 2 layers, so 15 × 2 = 30 cubes.

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PREVIEW

That’s the end of the preview answers

These are the answers to the 15 preview questions. The full answer key covers all 30 questions in Maths Grade 6 — Practice Exam 1, with the working behind every mark.

STILL TO COME	QUESTIONS	MARKS
Numeracy	15	15

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- The complete answer key, with the working behind every mark
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