

BreinBoost

Grade 7 Mathematics Sample Exam - Memorandum

Grade	7
Time	20 min
Marks	20
Questions	12

A short Senior Phase preview using whole numbers, exponents and geometry. The full Grade 7 membership includes two different exams per subject per term plus resources and progress tracking.

1. Calculate: 2^5 . [1]

Answer: 32

$2^5 = 2 \times 2 \times 2 \times 2 \times 2 = 32$.

2. Which number is a prime factor of 84? [1]

A. 4

B. 6

C. 7

D. 9

Answer: 7

7 is prime and divides 84 exactly.

3. Find the highest common factor of 24 and 36. [1]

Answer: 12

The HCF of 24 and 36 is 12.

4. $5^3 = 125$. [1]

True / False

Answer: true

True: $5 \times 5 \times 5 = 125$.

5. Calculate: $4\,860\,000 \div 60$. [2]

Answer: 81000

$4\,860\,000 \div 60 = 81\,000$.

6. Calculate: $2^3 \times 2^4$. [2]

Answer: 128

$2^3 \times 2^4 = 2^7 = 128$.

7. Find $\sqrt{144}$. [2]

Answer: 12

$12 \times 12 = 144$, so $\sqrt{144} = 12$.

8. Two angles on a straight line add to 180° . One angle is 68° . Find the other angle. [2]

Answer: 112

$180^\circ - 68^\circ = 112^\circ$.

9. A triangle has angles of 53° and 67° . Find the third angle. [2]

Answer: 60

Angles in a triangle total 180° : $180 - 53 - 67 = 60^\circ$.

10. What is the sum of the interior angles of a quadrilateral? [2]

Answer: 360

The interior angles of every quadrilateral total 360° .

11. A rectangle is 14.5 cm long and 8 cm wide. Find its perimeter in cm. [2]

Answer: 45

Perimeter = $2(14.5 + 8) = 45$ cm.

12. What type of angle is 135° ? [2]

- A. Acute
- B. Right
- C. Obtuse
- D. Reflex

Answer: Obtuse

135° is greater than 90° but less than 180° , so it is obtuse.

Sample only. Full BreinBoost access includes two exams per subject per term, printable papers and memorandums, progress tracking and learning resources.