

BreinBoost

Grade 6 Mathematics Sample Exam - Memorandum

Grade	6
Time	20 min
Marks	20
Questions	12

This mini assessment samples Grade 6 whole-number, factor, multiple, number-sentence and fraction skills. Full BreinBoost packs cover the complete term and all subjects.

1. What is the value of the digit 6 in 7 693 417? [1]

Answer: 600000

6 is in the hundred-thousands place, so its value is 600 000.

2. Which number is the greatest? [1]

A. 8 569 231

B. 8 676 321

C. 8 765 231

D. 8 765 321

Answer: 8 765 321

Compare the digits from left to right; 8 765 321 is greatest.

3. Round 4 875 499 to the nearest 1 000. [1]

Answer: 4875000

499 is less than 500, so the thousands stay at 4 875 000.

4. 15 is a factor of 90. [1]

True / False

Answer: true

True, because $90 \div 15 = 6$.

5. Calculate: $8\,743\,216 + 954\,807$. [2]

Answer: 9698023

$8\,743\,216 + 954\,807 = 9\,698\,023$.

6. Calculate: $6\,000\,000 - 2\,748\,659$. [2]

Answer: 3251341

$6\,000\,000 - 2\,748\,659 = 3\,251\,341$.

7. Find the lowest common multiple (LCM) of 6 and 8. [2]

Answer: 24

Multiples of 6: 6,12,18,24; multiples of 8: 8,16,24. LCM = 24.

8. Find the highest common factor (HCF) of 24 and 36. [2]

Answer: 12

The greatest factor shared by 24 and 36 is 12.

9. What is $\frac{3}{4}$ of 48? [2]

Answer: 36

$48 \div 4 = 12$ and $12 \times 3 = 36$.

10. Complete: _____ + 287 500 = 1 000 000. [2]

Answer: 712500

$1\,000\,000 - 287\,500 = 712\,500$.

11. Which fraction is equivalent to $\frac{3}{5}$? [2]

A. $\frac{4}{10}$

B. $\frac{6}{10}$

C. $\frac{6}{15}$

D. $\frac{9}{20}$

Answer: 6/10

Multiply numerator and denominator of $\frac{3}{5}$ by 2 to get $\frac{6}{10}$.

12. Continue the pattern: 643, 542, 441, _____. [2]

Answer: 340

Subtract 101 each time: $441 - 101 = 340$.

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