QUANTITATIVE APTITUDE

GAT Mock Test 1

Name: _____ Class: _____ Date: _____

Instructions: Choose the best answer for each question. Mark one choice (A, B, C, or D) for every question. Each question is worth 1 point.

01 Compare the two values.

First value: $2 \times 3 \times 4 \times 5 \times 5 \times 6 \times 7$

Second value: $10 \times 9 \times 8 \times 7$

A. The first value is greater
B. The second value is greater
C. The two values are equal
D. Insufficient information

CCSS Alignment: CCSS.MATH.CONTENT.6.NS.B.2 / CCSS.MATH.CONTENT.7.NS.A.2

Core Skill: Multi-digit integer multiplication comparison and structural prime factorization analysis.

02 What is the tens digit in the product $12{,}335 \times 54{,}321$?

A. 2
B. 3
C. 4
D. 5

CCSS Alignment: CCSS.MATH.CONTENT.5.NBT.B.5 / CCSS.MATH.CONTENT.7.NS.A.2

Core Skill: Multi-digit integer multiplication algorithms and place-value analysis (determining specific place-value digits).

03 Compare the two values.

First value: $(-1) - (-1) - (-1)$

Second value: $(-1) - (-1)$

A. The first value is greater
B. The second value is greater
C. The two values are equal
D. Insufficient information

CCSS Alignment: CCSS.MATH.CONTENT.7.NS.A.1.C

Core Skill: Understanding subtraction of integers as adding the additive inverse ($a - b = a + (-b)$).

04 Find the sum: $22 + 33 + 44 + 55 + 66 + 77 + 88 + 99$.

A. 440
B. 450
C. 484
D. 600

CCSS Alignment: CCSS.MATH.CONTENT.7.NS.A.1 / CCSS.MATH.CONTENT.7.EE.A.1

Core Skill: Efficient multi-term integer addition using arithmetic series properties and algebraic factoring [$11\times (2+3+...+9)$].

05 If $x = 2$, compare the two values.

First value: $x(x - 1)^2 \div x \times 4$

Second value: $x \div 2$

A. The first value is greater
B. The second value is greater
C. The two values are equal
D. Insufficient information

CCSS Alignment: CCSS.MATH.CONTENT.6.EE.A.2.C / CCSS.MATH.CONTENT.7.NS.A.2

Core Skill: Evaluating numerical expressions at specific variable values using standard Order of Operations (PEMDAS).

LIVEWORKSHEETS

QUANTITATIVE APTITUDE — CONTINUED

Questions 6–10

06 Evaluate: [−14(25) + 7(25)] ÷ 7.

A. 25	B. −25
C. 75	D. −75

CCSS Alignment: CCSS.MATH.CONTENT.7.NS.A.2.C / CCSS.MATH.CONTENT.7.EE.A.1

Core Skill: Applying properties of operations (Distributive Property with negative integers) to multiply and divide rational numbers.

07 Alarm A rings every 3 hours and Alarm B rings every 12 hours. If they ring together at time 0, how many further times will they ring together during the next 80 hours?

A. 10	B. 6
C. 4	D. 3

CCSS Alignment: CCSS.MATH.CONTENT.6.NS.B.4

Core Skill: Finding the Least Common Multiple (LCM) of two whole numbers and solving multi-step real-world periodic interval problems.

08 Hamad buys boxes of erasers (12 erasers per box) and boxes of pens (8 pens per box). If he buys equal numbers of pens and erasers, what is the least total number of pieces of stationery he can buy?

A. 12	B. 24
C. 48	D. 96

CCSS Alignment: CCSS.MATH.CONTENT.6.NS.B.4

Core Skill: Calculating the Least Common Multiple (LCM) of two quantities and computing combined totals in real-world scenarios.

09 If y = −3, what is the value of (−2)y + 5?

A. 11	B. −1
C. 1	D. −11

CCSS Alignment: CCSS.MATH.CONTENT.7.NS.A.2.A / CCSS.MATH.CONTENT.7.EE.B.4

Core Skill: Algebraic expression evaluation involving the product of two negative numbers [(-2)(-3) = 6] and integer addition

10 A box holds 6 pencils and another box holds 10 erasers. If equal numbers of pencils and erasers are bought using whole boxes, what is the least total number of pieces?

A. 30	B. 60
C. 16	D. 120

CCSS Alignment: CCSS.MATH.CONTENT.6.NS.B.4

Core Skill: Determining the Least Common Multiple (LCM) to equate package quantities and finding the sum total of both sets.

Score: _____ / 10

LIVEWORKSHEETS