Vidya Mandir Public School

Unit Test 2

Date: 12 Aug 2026 | **Class VIII · Mathematics** | Duration: 60 Minutes | Max. Marks: 27

Section A — 1 Mark Questions

Q1. Expand $(2x - y)^2$

(A) $4x^2 - 4xy + y^2$ **(B)** $4x^2 - 2xy + y^2$
(C) $4x^2 + y^2$ **(D)** $2x^2 - 4xy + y^2$

Q2. Out of 40 students, 25% are absent. How many students are absent?

(A) 10 **(B)** 8
(C) 12 **(D)** 5

Q3. Evaluate: $\frac{19}{24} \div \frac{-57}{48}$

(A) $-\frac{2}{3}$ **(B)** $-\frac{4}{3}$
(C) $-\frac{8}{9}$ **(D)** $-\frac{16}{9}$

Q4. The side of a square is increased by 50%. By how many times does area increase?

(A) 1.5 **(B)** 2.25
(C) 2 **(D)** 3

Q5. Solve: (x – 5)/3 = 4

(A) 15 **(B)** 16
(C) 17 **(D)** 18

Q6. Solve: 2(x – 4) + 6 = 14

(A) 7 **(B)** 8
(C) 9 **(D)** 10

Q7. Find the simple interest on 2000 for 3 years at 5% per annum.

(A) 200 **(B)** 250
(C) 300 **(D)** 350

Q8. Evaluate 10^3.

(A) 100 **(B)** 1000
(C) 300 **(D)** 30

Section B — 2 Marks Questions

Q1. Find the area of a square field whose side is 32 m. Also find the cost of grassing it at ₹4 per m².

Q2. Find the volume of a cylinder whose radius is 14 cm and height is 15 cm.

Q3. Find the total surface area of a cylinder whose radius is 7 cm and height 10 cm.

Q4. The diagonals of a kite are 18 cm and 20 cm. Find its area.

Q5. Find the cube of $2/5$.

Section C — 3 Marks Questions

Q1. Simplify the expression $\frac{2^{-3} \times 5^{4}}{2^{-5}}$ and express the result as a positive exponent.

Q2. A train travels 480 km in 6 hours. How far will it travel in 14.5 hours?

Q3. Solve $\frac{x}{7} + \frac{x}{2} = 27$.