



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL
TERM 1 EXAMINATION (2026-27)
MARKING KEY MATHEMATICS: SET 2

Class: VIII
Date: 09-09-26
Admission no:

Time: 3hrs
Max Marks: 80
Roll no:

General instructions:

1. The Question paper contains- five sections A, B, C, D and E. Each section is compulsory. However, there are internal choices in some questions.
2. Section A has 18 MCQ's and 02 Assertion-Reason based questions of 1 mark each.
3. Section B has 5 very short (VSA)- type questions of 2 marks each.
4. Section C has 6 short (SA)- type questions of 3 marks each.
5. Section D has 4 long (LA)- type questions of 5 marks each.
6. Section E has 3 source based/case-based questions of 4 marks each

SECTION A — CORRECT OPTIONS ONLY

1-B | 2-B | 3-B | 4-B | 5-C | 6-A | 7-A | 8-C | 9-C | 10-B | 11-B | 12-B | 13-A | 14-C | 15-B | 16-B | 17-C | 18-A | 19-A | 20-B

SECTION B — 2M EACH

Q21. $\sqrt[3]{729} = 9$ cm (2M)

Q22. Draw diagonal 6 cm $\rightarrow$ bisect at O $\rightarrow$ draw perpendicular through O $\rightarrow$ mark 2.5 cm on either side $\rightarrow$ join vertices $\rightarrow$ Rhombus (2M)

OR: Draw diagonal 6 cm $\rightarrow$ construct perpendicular bisector $\rightarrow$ join endpoints $\rightarrow$ Square (2M)

Q23. Digital root: $5+6=11 \rightarrow 2$ (1M); next number with same digital root = 65 (1M)

Q24. Earth is heavier (1M); difference = $4.97 \times 10^{24} - 7.35 \times 10^{22} = 4.8965 \times 10^{24}$ kg (1M)

OR: $(2^{10} \times 2^5) / 2^9 = 2^6 = 64$ (2M)

Q25. $37 \times 999 = 37 \times (1000 - 1) = 37000 - 37 = 36963$ (2M)

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SECTION C — 3M EACH

Q26. $1916 = 31 \times 60 + 56 \rightarrow$ Mesopotamian 31,56 (1M); Chinese 一千九百一十六 (1M); Roman MCMXVI (1M)

Q27. $\text{LCM}(4, 6, 10) = 60 \rightarrow 60 = 2^2 \times 3 \times 5 \rightarrow$ multiply by $3 \times 5 = 15 \rightarrow 900$ (3M)

OR: $6150000 = 6.15 \times 10^6$; $91000000 = 9.1 \times 10^7$; $0.000095 = 9.5 \times 10^{-5}$ (1M each)

Q28. Draw PQ=5 cm (1M); at Q construct 60° and mark QR=6 cm (1M); draw PS||QR and RS||PQ $\rightarrow$ PQRS (1M)

Q29. 2165 $\rightarrow$ divisible by 5 only (1M); 2662 $\rightarrow$ neither 9 nor 5 (1M); 1573 $\rightarrow$ neither 9 nor 5 (1M)

OR: $AB \times A7 = 211B \rightarrow A=4, B=5$ (3M)

Q30. $(2.5 \times 10^3)(12.5 \times 10^{-5}) = 31.25 \times 10^{-2} = 3.125 \times 10^{-1}$ (2M) = 0.3125 (1M)

Q31. $(3x+5)(5x-1) = 15x^2 + 12x - 5$ (1M); $x=2 \rightarrow 11 \times 9 = 99$ m² (1M); new width = $5x-1+4 = 5x+3$ m (1M)

SECTION D — 5M EACH

Q32. DCCX = **710 (1M)**; CXV = **115 (1M)**; $710 - 115 = 595$ (1M); Chinese = **五百九十五 (1M)**; Roman = **DXCV (1M)**

OR: CCL = **250 (1M)**; CCXXIV = **224 (1M)**; $250 - 224 = 26$ (1M); Chinese = **二十六 (1M)**; Roman = **XXVI (1M)**

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Q33. $100 = 2^2 \times 5^2 \rightarrow$ multiply by $2 \times 5 = 10$ (2M); $100 \times 10 = 1000 = 10^3 \rightarrow$ cube root **10 (1M)**; $1100 = 2^2 \times 5^2 \times 11 \rightarrow$ divide by **11 (2M)** $\rightarrow 100 = 10^2$

Q34. (i) $UT \times 3 = PUT \rightarrow 50 \times 3 = 150$ (1M); (ii) $PP \times QQ = PRP \rightarrow 22 \times 11 = 242$ OR $33 \times 11 = 363$ OR $44 \times 11 = 484$ (1M); (iii) $EF \times E = GGG \rightarrow 37 \times 3 = 111$ (1M); (iv) $WOW \times 5 = MEOW \rightarrow 575 \times 5 = 2875$ (2M)

Q35. $(x+y)^2 = 484$, $(x-y)^2 = 100 \rightarrow$ subtract: $4xy = 384 \rightarrow xy = 96$ (2M); add: $2(x^2 + y^2) = 584 \rightarrow x^2 + y^2 = 292$ (2M); $(x+y)/(x-y) = 22/10 \rightarrow 11/5$ (1M)

OR: $p - q = 6$, $p^2 + q^2 = 116 \rightarrow 36 = 116 - 2pq \rightarrow pq = 40$ (2M); $(p+q)^2 = 116 + 80 = 196 \rightarrow (p+q)^2 = 196$ (2M); $p^2 - q^2 = (p-q)(p+q) = 6 \times 14 = 84$ (1M)  CLASS viii MATHS RR TERM 1 set ...

SECTION E — 4M EACH

Q36. (a) Opposite side = **14 m (1M)**; (b) adjacent angle = $180^\circ - 105^\circ = 75^\circ$ (1M); (c) opposite angle = **105° (1M)**; (d) opposite sides equal + opposite angles equal (1M)

Q37. (i) $1.2756 \times 10^7 = 12,756,000$ m (1M); (ii) $1.4 \times 10^9 = 1,400,000,000$ m (1M); (iii) ratio = $(1.4 \times 10^9)/(1.2756 \times 10^7) \approx 1.0975 \times 10^2$ (1M); (iv) ≈ 110 times (1M)

Q38. (i) Total before discount = **28×12 (1M)**; (ii) $28 \times (12 - 2) = 28 \times 10 = 280$ (1M); (iii) Amount paid = **₹280 (1M)**; (iv) Saving = $28 \times 2 = ₹56$ (1M)  CLASS viii MATHS RR TERM 1 set ...

*****ALL THE BEST*****