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NCERT Class 8 maths: Ganita Prakash Part I chapter guide

Practice worksheet - Maths · Class 8

Name: _____ Date: _____

Show your working. Answers and explanations follow on a separate page.

Try each task before opening its answer. Give an example or reason, not only a label.

Write an answer and your reason before opening the explanation. Check the reasoning as well as the final answer.

1. Find √49.

2. Solve $x^2 = 49$ over the real numbers.

3. Find the volume of a cube of side 4 cm.

4. Simplify $2^4 \times 2^3$.

5. Is 246 divisible by 2? Explain.

6. Give a counterexample to "every odd number is prime".

7. A quadrilateral has three right angles. Find the fourth angle.

8. One angle of a parallelogram is 65°. Find an adjacent angle.

Practice continued

9. A parallelogram has base 8 cm and perpendicular height 5 cm. Find its area.

10. Expand 3(x + 6).

11. Factorise 5 x + 15 using the common factor.

12. Four identical pens cost ₹28. Find the cost of nine at the same unit price.

13. A delivery costs ₹10 plus ₹4 per item. Is the total directly proportional to item count?

14. Can this verified Part I list confirm a Part II chapter number?

Answers and explanations

Answer key - Maths · Class 8

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1. 7.

The square-root symbol denotes the nonnegative root.

2. $x = 7$ or $x = -7$.

Both values square to forty-nine.

3. 64 cm^3.

4 × 4 × 4.

4. $2^7 = 128$.

Add exponents for the equal base.

5. Yes.

Its units digit is even.

6. 9, for example.

It is odd but equals 3 × 3.

7. 90°.

360 − 270.

8. 115°.

Adjacent angles are supplementary.

9. 40 cm^2.

Base times perpendicular height.

10. 3 x + 18.

Distribute three to both terms.

11. 5(x + 3).

Expand to check.

12. ₹63.

Each pen costs seven rupees.

13. No.

The fixed charge prevents a constant cost-per-item ratio.

14. No.

Use Part II's own official contents.