bananalearn

LEARN IT. UNDERSTAND IT. TRY IT.

Class 9 maths chapter revision checklist

Practice worksheet - Maths · Grade 9

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. Is 0.75 rational? Explain using a fraction.

2. Is $\sqrt{2}$ rational?

3. Expand $(x + 4)^2$.

4. Factorise $x^2 - 25$.

5. Continue 4, 7, 10, 13 by two terms.

6. Does (2, 5) satisfy 3 x + y = 11?

7. Solve $x + y = 6$ and $x - y = 2$.

8. Find the distance between (1, 4) and (6, 4).

Practice continued

9. Find the midpoint of (2, 1) and (6, 5).

10. Two triangle angles are 42° and 68°. Find the third.

11. Do three matching angles prove triangles congruent?

12. Find volume of a cuboid 5 cm by 4 cm by 3 cm.

13. Find the median of 1, 4, 5, 8, 12.

14. Find P(an odd face) for a fair six-sided die.

Answers and explanations

Answer key - Maths · Grade 9

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1. Yes; 3/4.

It is a ratio of integers with nonzero denominator.

2. No.

It cannot be expressed as such a fraction.

3. $x^2 + 8x + 16$.

Include the two mixed products.

4. $(x - 5)(x + 5)$.

Use the difference of squares.

5. 16, 19.

The constant difference is three.

6. Yes.

$3 \times 2 + 5 = 11$.

7. x = 4, y = 2.

Add to get $2x = 8$, then substitute.

8. 5 units.

Only the horizontal coordinate changes.

9. (4, 3).

Average each coordinate separately.

10. 70°.

$180 - 42 - 68$.

11. No.

They can have different sizes.

12. 60 cm^3.

Multiply the three perpendicular lengths.

13. 5.

It is the middle value in the ordered list.

14. 1/2.

Three odd faces out of six.