

FIRST NAME SURNAME

SCHOOL DATE



SMOOTHMATHS

11 PLUS EXAMINATION

MATHEMATICS

SAMPLE PAPER 1

Paper ID: SM-11MATH-A9

Please read the following before you begin

- Please attempt all questions.
- Keep all your work neatly within the answer spaces provided.
- Show all your working out clearly on the paper.
- Calculators are not allowed.

TOTAL MARKS: 75

TIME ALLOWED: 1 Hour

STUDENT SCORE:/75



Sample paper produced independently by SmoothMaths, inspired by the question style and structure often seen in leading independent school and 11+ entrance exams.
Not affiliated with or endorsed by any school or examination board.

WWW.SMOOTHMATHS.CO.UK

Section A:

1. Add 482 and 176. Subtract 89 from the result.

Answer:

2. Multiply 27 by 14.

Answer:

3. Divide 642 by 6 and write the quotient.

Answer:

4. A packet contains 240 sweets. If 12 sweets are eaten each day, how many days will the packet last?

Answer:

5. Subtract 356 from 500.

Answer:

6. A man spends £45.20 on groceries, £18.75 on clothes, and £12.50 on books. How much does he spend in total?

Answer:

7. Find 25% of 320.

Answer:

8. Calculate $\frac{1}{2} \times 36 + \frac{1}{3} \times 27$.

Answer:

9. Write 0.75 as a fraction in its simplest form.

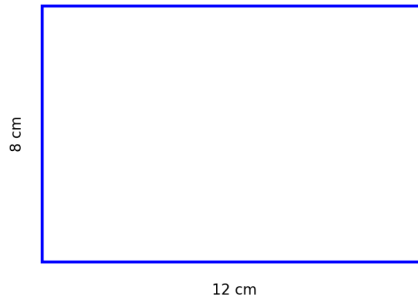
Answer:

10. Simplify: $(3 \times 8) - (2 + 5)$.

Answer:

Section B:

11. A rectangle has a length of 12 cm and a width of 8 cm. What is its perimeter?



Answer:

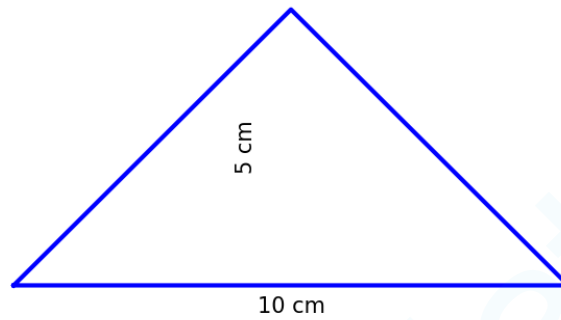
12. The angles of a triangle are 50° , 70° and an unknown angle. Find the unknown angle.

Answer:

13. A square has an area of 81 cm^2 . What is the length of one side?

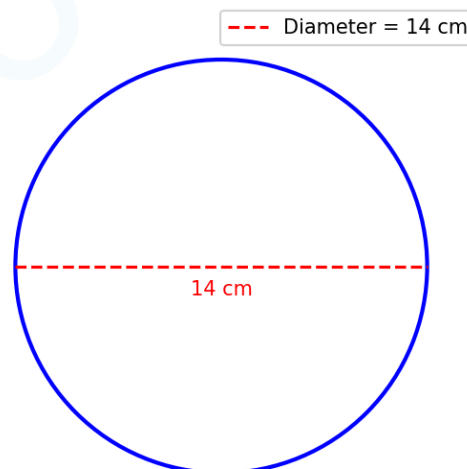
Answer:

14. Calculate the area of a triangle with a base of 10 cm and height 5 cm.



Answer:

15. The diameter of a circle is 14 cm. Find the circumference using $\pi=3.14$.



Answer:

16. A cube has sides measuring 4 cm. What is its volume?

Answer:

17. If two angles in a quadrilateral are 80° and 95° , and the third angle is 70° , find the fourth angle.

Answer:

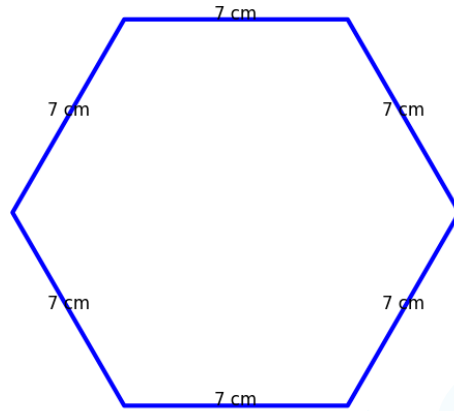
18. A parallelogram has a base of 15 cm and a height of 8 cm. Find its area.

Answer:

19. A clock face shows 3:15. What is the angle between the hour and minute hands?

Answer:

20. A hexagon has all sides of length 7 cm. What is its perimeter?



Answer:

Section C:

21. If $x + 7 = 15$, what is x ?

Answer:

22. Solve for y : $3y + 2 = 17$.

Answer:

23. A bag contains 5 red balls, 7 blue balls, and 8 green balls. What fraction of the balls are red?

Answer:

24. The sum of three consecutive numbers is 48. What are the numbers?

Answer:

25. A train travels 90 km in 2 hours. What is its average speed?

Answer:

26. John buys 5 kg of potatoes at £2.50 per kg. How much does he pay?

Answer:

27. A box contains 120 chocolates. If 4 people share them equally, how many chocolates does each person get?

Answer:

28. Find the missing number in the sequence: 2,6,12,20,___.

Answer:

29. The product of two numbers is 56, and one of them is 8. What is the other?

Answer:

30. Jane has £50. She spends £18.75 on a dress and £12.30 on shoes. How much money does she have left?

Answer: