

FIRST NAME SURNAME

SCHOOL DATE



SMOOTHMATHS

11 PLUS EXAMINATION

MATHEMATICS

SAMPLE PAPER 1

Paper ID: SM-11MATH-A13

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: 60

TIME ALLOWED: 45 MINUTES

STUDENT SCORE:/60



Sample paper produced independently by SmoothMaths, inspired by the question style and structure often seen in leading independent school and 11+ entrance exams.

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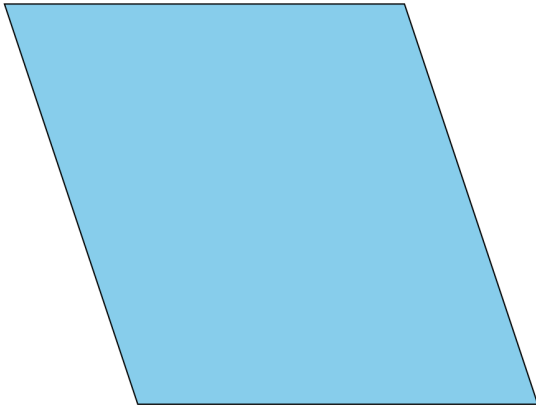
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Q1: Using the digits below, create a multiplication problem that equals 448.

Digits: 2, 4, 8, 7

Answers:

Q2: Calculate the area of a trapezium with bases 8 cm and 12 cm and height 5 cm.



Answers:

Q3: How many boxes are needed for 405 pencils if each box contains 12 pencils?

Answers:

Q4: If there are 40 bananas, find the number of apples and oranges.

Answers:

Q5: List three different prime numbers that add up to 30.

Answers:

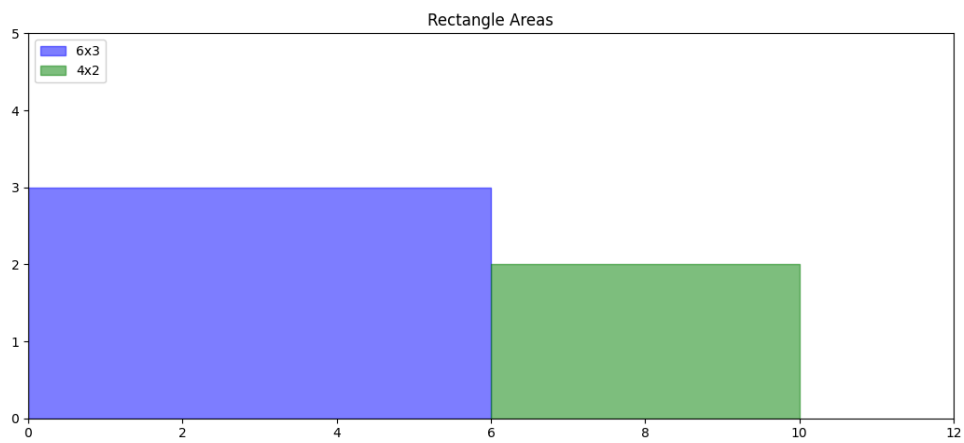
Q6: Solve for x: $2x + 5 = 17$

Answers:

Q7: Find two consecutive even numbers that add up to 58.

Answers:

Q8: Area of Rectangles



Answers:

Q9: Solve for x
Solve $5x - 2 = 18$.

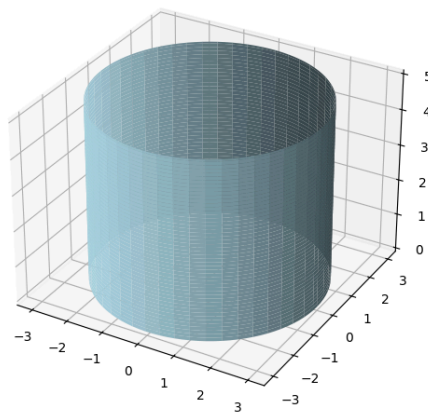
Answers:

Q10: Alice is 3 years older than Bob, and their combined age is 30. Find Bob's age.

Answers:

Q11: Volume of a Cylinder

Cylinder: Radius = 3 cm, Height = 5 cm



Q12: A bag contains 4 red balls, 5 green balls, and 6 blue balls. If one ball is randomly selected, what is the probability that it is green?

Answers:

Q13: Calculate the simple interest on a principal amount of 500 at an annual interest rate of 5% for 3 years.

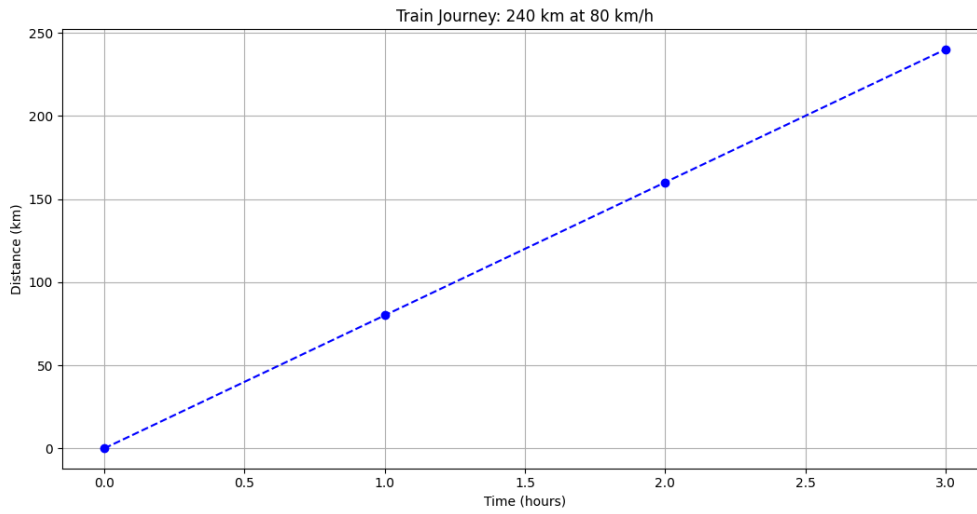
Answers:

Q14: Solve the system of equations:

$$2x + 3y = 12 \text{ and } x - y = 2$$

Answers:

Q15: A train travels 240 km at a speed of 80 km/h. How long does it take to complete the journey?



Answers: