

Problems

Time allowed: 4 hours.

NO calculators are to be used.

Questions 1 to 8 only require their numerical answers all of which are non-negative integers less than 1000.

Questions 9 and 10 require written solutions which may include proofs.

The bonus marks for the Investigation in Question 10 may be used to determine prize winners.

1. Two positive integers, a and b , satisfy the equation

$$\frac{2^a + 2^{2a} + 2^{2^a} + 2^{2^a}}{2024} = \frac{2^b}{23^b}$$

Find the value of $a + b$.

[2 marks]

2. The area of a right-angled triangle is 120 and each of its three sides has integer length.

Find the length of its hypotenuse.

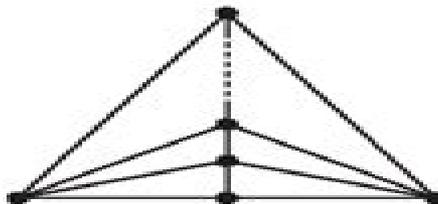
[2 marks]

3. Quadrilateral $ABCD$ has perimeter 60 cm and AB has length 9 cm. Sides AD and BC are parallel with distance 7 cm between them. Points E and F are chosen on sides BC and AD respectively so that the line EF divides $ABCD$ into two quadrilaterals with equal perimeters and equal areas.

What is the area of quadrilateral $ABCD$?

[3 marks]

4. In the following figure, all the central dots are collinear and the bottom three dots are collinear. There are exactly 2024 triangles that have dots as vertices (no three collinear dots form a triangle).



How many dots are there?

[2 marks]

5. Three positive integers a , b , c satisfy

$$a^2 + b - c = 100 \tag{1}$$

$$a + b^2 - c = 124 \tag{2}$$

Find $a + b + c$.

[3 marks]

Mathematics Olympiad Problems And Solutions

Yan Bai



Mathematics Olympiad Problems And Solutions:

Mathematics Olympiad Problems And Solutions Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Mathematics Olympiad Problems And Solutions**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web answer because the two polar bears or penguins have equal electronegativity they will pull electrons equally hard and in most cases neither will end up with more electrons each polar bear and penguin has an electronegativity of the same value a non polar bond is formed when two polar bears or two penguins are bonded together

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