

1999 FIS.1

若 a 為能整除 $3^{11} + 5^{13}$ 的最小質數，求 a 之值。

If a is the smallest prime number which can divide the sum $3^{11} + 5^{13}$, find the value of a .

2003 FG1.4

兩質數之和為 105。若這兩質數之積為 d ，求 d 的值。

Given that the sum of two prime numbers is 105.

If the product of these prime numbers is d , find the value of d .

2006 HG1

設 a 、 b 和 c 是三個質數。若 $a < b < c$ 及 $c = a^2 + b^2$ ，求 a 的值。

Let a , b and c are three prime numbers.

If $a < b < c$ and $c = a^2 + b^2$, find the value of a .

2010 FI2.1

若 a 、 p 、 q 是質數，且滿足 $a < p$ 及 $a + p = q$ ，求 a 的值。

If a , p , q are primes with $a < p$ and $a + p = q$, find the value of a .

2010 FG3.1

求 $101^{303} + 301^{101}$ 的最小質因子。

Find the smallest prime factor of $101^{303} + 301^{101}$.

2011 HI8

學校推出每張面值為\$10、\$15、\$25 及 \$40 的四種賣物券。甲班用若干張\$100 紙幣買了 30 張賣物券，包括其中兩種賣物券各 5 張及另外兩種賣物券各 10 張。問甲班共用了多少張 \$100 紙幣購買賣物券？

A school issues 4 types of raffle tickets with face values \$10, \$15, \$25 and \$40.

Class A uses several one-hundred dollar notes to buy 30 raffle tickets, including 5 tickets each for two of the types and 10 tickets each for the other two types.

How many one-hundred dollars notes Class A use to buy the raffle tickets?

Answers

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