1988 FI1.3

若 $\dfrac{25}{32}$ 的 8% 是 R 的 $\dfrac{1}{8}$%，求 R 的值。

If 8% of $\dfrac{25}{32}$ is $\dfrac{1}{8}$% of R, find the value of R.

1991 HI7

若一球體的直徑增加 20%，則其體積增加 x%，求 x 的值。

If the diameter of a sphere is increased by 20%, its volume will be increased by x%. Find the value of x.

1991 FG9.4

若一球體之體積增加 72.8%，則其表面面積增加 x%。求 x 的值。

If the volume of a sphere is increased by 72.8%, then the surface area of the sphere is increased by x%. Find the value of x.

1993 FI5.1

長方形兩對邊同時加長 50%，而其餘兩對邊則縮短 20%。 若長方形的面積增加 a%，求 a 的值。

Two opposite sides of a rectangle are increased by 50% while the other two are decreased by 20%. If the area of the rectangle is increased by a%, find the value of a.

1994 FI2.2

某甲買了一些乒乓球，需多付出銷售稅 5%。若他毋須付稅，則可用同等金錢多買 3 個乒乓球。假設 B 是他所買乒乓球的個數，求 B 的值。

A man bought a number of ping-pong balls where a 5% sales tax is added. If he did not have to pay tax he could have bought 3 more balls for the same amount of money. If B is the total number of balls that he bought, find the value of B.

1997 FGS.4

將一個正方形的長增加 20%，同時又將它的闊減少 20%，則我們可得一個長方形。若長方形與正方形面積的比為 $1:r$，求 r 的值。

A square is changed into a rectangle by increasing its length by 20% and decreasing its width by 20%. If the ratio of the area of the rectangle to the area of the square is $1:r$, find the value of r.

1999 FG1.3

設 x, y 為非零實數，若 x 是 y 的 250%，而 $2y$ 是 x 的 c%，求 c 之值。

Let x, y be non-zero real numbers.

If x is 250% of y and $2y$ is c% of x, find the value of c.

2005 FG3.4

假設 x 和 y 都是正數並且成反比。

若 x 增加了 10%，則 y 減少了 d%，求 d 的值。

Let x and y be two positive numbers that are inversely proportional to each other.

If x is increased by 10 %, y will be decreased by d %, find the value of d.

Answers

1988 FI1.3	1991 HI7	1991 FG9.4	1993 FI5.1	1994 FI2.2
50	72.8	20	20	60
1997 FGS.4 $\dfrac{25}{24}$	1999 FG1.3 80	2005 FG3.4 $\dfrac{100}{11}$		