YH08-1A

ab

ac

bc

ac + bc

ac + bc + ad + bd

ac + bc + ad + bd

ac + bc + ad + bd

YH08-4A

YH08-2A

$a^2 + 2ab + b^2$

$x^2 + 2xy + y^2$

x^2	xy
xy	y^2

YH08-5A
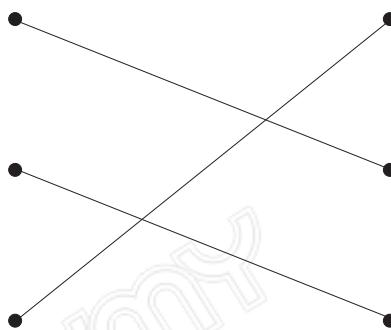
$(100 + 3)^2 = 100^2 + 2 \times 100 \times 3 + 3^2 = 10609$

$(300 - 5)^2 = 300^2 - 2 \times 300 \times 5 + 5^2 = 87025$

$(400 + 2)(400 - 2) = 400^2 - 2^2 = 160000 - 4 = 159996$

$(100 - \frac{1}{2})^2 = 100^2 - 2 \times 100 \times \frac{1}{2} + (\frac{1}{2})^2$
$= 10000 - 100 + 0.25 = 9900.25$

$(1 + 0.05)(1 - 0.05) = 1^2 - 0.05^2 = 1 - 0.0025 = 0.9975$

YH08-3A

$a^2 - 2ab + b^2$

$x^2 - 2xy + y^2$

x^2	$-xy$
$-xy$	y^2

$(300 + 5)^2$
$= 300^2 + 2 \times 300 \times 5 + 5^2$
$= 90000 + 3000 + 25$
$= 93025$

$(300 - 5)(300 + 5)$
$= 300^2 - 5^2$
$= 89975$

$(500 + 1)^2$
$= 500^2 + 2 \times 500 \times 1 + 1^2$
$= 251001$

YH08-6A

$(600 - 4)^2$
$= 600^2 - 2 \times 600 \times 4 + 4^2$
$= 360000 - 4800 + 16$
$= 355216$

$(100 + \frac{1}{2})^2$
$= 100^2 + 2 \times 100 \times \frac{1}{2} + 0.25$
$= 10100.25$

$(2 + 0.02)(2 - 0.02)$
$= 2^2 - 0.02^2$
$= 3.9996$

YH08-1B	YH08-4B

YH08-1B

$ac + ad + bc + bd$

$a^2 + 2ab + b^2$

$a^2 - 2ab + b^2$

$(a + b)(a - b)$

$45^2 - 15^2 = (45 + 15)(45 - 15)$
$= 60 \times 30$
$= 1800$

答：1800cm²

YH08-4B

$(43\frac{1}{4} + 17\frac{1}{4})(43\frac{1}{4} - 17\frac{1}{4})$
$= 60.5 \times 26 \quad = 1573$

$1987 \times 2007 - 1997 \times 1997$
$= 1987 \times 2007 - 1987 \times 1997 - 10 \times 1997$
$= 1987 \times 10 - 19970$
$= -100$

$(1234567 + 234567)(1234567 - 234567)$
$= 1469134000000$

$(5 + x)(5 - x)$
$= 5^2 - x^2$
$= 25 - x^2$

YH08-2B

$(82 + 18)(82 - 18)$
$= 100 \times 64$
$= 6400$

$(35\frac{1}{2} + 15\frac{1}{2})(35\frac{1}{2} - 15\frac{1}{2})$
$= 51 \times 20 \quad = 1020$

$(72\frac{3}{4} + 27\frac{1}{4})(72\frac{3}{4} - 27\frac{1}{4})$
$= 4550$

$(400 + 105)(400 - 105)$
$= 400^2 - 105^2 = 148975$

$a^2 + 10a + 25$

$9x^2 + 24x + 16$

$25x^2 - 10xy + y^2$

$4x^2 - 12xy + 9y^2$

YH08-5B

$36^2 - 6^2 = (36 + 6)(36 - 6)$
$= 42 \times 30$
$= 1260$

答：1260cm²

$54^2 \pi - 14^2 \pi = \pi(54 + 14)(54 - 14)$
$= 2720 \pi$

答：2720 π (cm²)

$20^2 - 8^2 = (20 + 8)(20 - 8)$
$= 28 \times 12$
$= 336$

答：336cm²

YH08-3B

$= x^2 - 25$

$4a^2 - 9$

$\frac{x^2}{4} - y^2$

$(x^2 - y^2)^2$
$= x^4 - 2x^2y^2 + y^4$

$x^2y^2 - 2xy + 1$

$\frac{1}{4}x^2 - \frac{2}{3}x + \frac{4}{9}$

$0.25x^2 - 0.6xy + 0.36y^2$

YH08-6B

(1) $240 = 2^4 \times 3 \times 5$

(2) $(4 + 1)(1 + 1)(1 + 1) = 20$

(3) $(1 + 2 + 4 + 8 + 16)(1 + 3)(1 + 5)$
$= 744$

(1) $(480 , 540) = 60$

(2) $60 = 2^2 \times 3 \times 5$
$(1 + 2 + 4)(1 + 3)(1 + 5) = 168$