# Worksheet: We Distribute Yet Things Multiply

Rajasthan State Board · Class 8 · Mathematics · 8 questions · 11 marks

| Name: _____ | Date: _____ | Score: _____ / 11 |
|---|---|---|

**Q1.** Expand $(5m + 6n)^2$. *[1 mark]*

A) $25m^2 + 60mn + 36n^2$

B) $25m^2 + 36n^2$

C) $10m^2 + 60mn + 12n^2$

D) $25m^2 + 30mn + 36n^2$

**Q2.** Using the identity $(a + b)(a  b) = a^2  b^2$, the value of $98 \times 102$ is: *[1 mark]*

A) 10000

B) 10004

C) 9996

D) 9998

**Q3.** Which of these is the correct expansion of $(a + 2)(b + 4)$? *[1 mark]*

A) $ab + 2a + 4b + 8$

B) $ab + 4a + 2b + 8$

C) $ab + 6$

D) $ab + 8$

**Q4.** In any $2 \times 2$ block of a calendar, the two diagonal products always differ by: *[1 mark]*

A) 8

B) 7

C) It depends on the block

D) 1

**Q5.** Which pair has the larger product: $14 \times 26$ or $16 \times 24$? *[1 mark]*

A) They are equal

B) $14 \times 26$

C) $16 \times 24$

D) Cannot be decided without computing

**Q6.** Use a suitable identity to find $91^2$. *[2 marks]*

**Q7.** The expression (a  b)($a^2$ + ab + $b^2$) simplifies to: *[1 mark]*

A) $a^3$  3ab + $b^3$

B) $a^2$  $b^2$

C) $a^3$  $b^3$

D) $a^3$ + $b^3$

**Q8.** Three consecutive numbers are taken. The middle one is squared and the product of the other two is subtracted from it. What is the result? *[3 marks]*