

Year 5 Worksheet 4 - Multiplication & Distributive law

23 x 9 = 20 x 9 + 3 x 9 = 180 + 27 = 207	25 x 8
34 x 7	45 x 3
56 x 9	73 x 4
66 x 6	95 x 5
92 x 7	78 x 9

Question 1: Multiply the following using distributive law as shown.



Question 2: Solve the following as shown.

1	Example Question: Use the distributive property to simplify the expression: $6 \times (7 + 2)$. Solution: $6 \times (7 + 2)$ $= (6 \times 7) + (6 \times 2)$ = 42 + 12 = 54.
2	Use the distributive property to find the product of 5 x (10 + 2).
3	How would you simplify the expression 7 x (4 + 5) using the distributive property?
4	Which property of multiplication allows you to rewrite 9 x 13 as (9 x 10) + (9 x 3)?



5	Using the distributive property, calculate 6 x (12 + 8).
6	Apply the distributive property to solve the following: 4 x (6 + 3).
7	Simplify the expression 3 x (9 + 2) using the distributive property.
8	How would you find the product of 11 x 17 using the distributive property?



9	If you have to find the total cost of 18 notebooks at \$5 each using the distributive property, how would you do it?
10	Write an expression for the area of a rectangle with length 15 units and width 7 units using the distributive property.



Question 3: Multiply the following in column.

25 x 18	42 x 20
34 x 27	45 x 31
56 x 42	73 x 28



66 x 37	95 x 59
92 x 77	78 x 46
98 x 79	87 x 58





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Answer Key

23 x 9 = 207	25 x 8 = 200
34 x 7 = 238	45 x 3 = 135
56 x 9 = 504	73 x 4 = 292
66 x 6 = 396	95 x 5 = 475
92 x 7 = 644	78 x 9 = 702

Question 1: Multiply the following using distributive law as shown.

Question 2: Solve the following as shown.

1	Example Question: Use the distributive property to simplify the expression: $6 \times (7 + 2)$.
	Solution: $6 \times (7 + 2)$ $= (6 \times 7) + (6 \times 2)$ = 42 + 12 = 54.
2	Use the distributive property to find the product of $5 \times (10 + 2)$.
	Answer: 5 x (10 + 2) = (5 x 10) + (5 x 2) = 50 + 10 = 60
3	How would you simplify the expression $7 \times (4 + 5)$ using the distributive property?
	Answer: 7 x (4 + 5) = (7 x 4) + (7 x 5) = 28 + 35 = 63.
4	Which property of multiplication allows you to rewrite 9×13 as $(9 \times 10) + (9 \times 3)$?
	Answer: The distributive property allows you to rewrite 9×13 as $(9 \times 10) + (9 \times 3)$.



5	Using the distributive property, calculate $6 \times (12 + 8)$. Answer: $6 \times (12 + 8) = (6 \times 12) + (6 \times 8) = 72 + 48 = 120$.
6	Apply the distributive property to solve the following: $4 \times (6 + 3)$.
	Answer: 4 x (6 + 3) = (4 x 6) + (4 x 3) = 24 + 12 = 36
7	Simplify the expression $3 \times (9 + 2)$ using the distributive property.
	Answer: $3 \times (9 + 2) = (3 \times 9) + (3 \times 2) = 27 + 6 = 33$.
8	How would you find the product of 11 x 17 using the distributive property?
	Answer: 11×17 can be rewritten as $(10 \times 17) + (1 \times 17)$ using the distributive property, which equals $170 + 17 = 187$.
9	If you have to find the total cost of 18 notebooks at \$5 each using the distributive property, how would you do it?
	Answer: The total cost can be calculated as 18×5 , which can be simplified as (5 x 8) using the distributive property, resulting in \$90.
10	Write an expression for the area of a rectangle with length 15 units and width 7 units using the distributive property.
	Answer: The area of the rectangle can be expressed as 15×7 , which can be further simplified as $(10 \times 7) + (5 \times 7)$ using the distributive property.

Question 3: Multiply the following in column.

25 x 18 = 450	42 x 20 = 840
34 x 27 = 918	45 x 31 = 1395
56 x 42 = 2352	73 x 28 = 2044
66 x 37 = 2442	95 x 59 = 5605



92 x 77 = 7084	78 x 46 = 3588
98 x 79 = 7742	87 x 58 = 5046