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## Distributive Property With Variables Worksheets

- 1) A neighborhood has 33 small trees and 17 large trees. If each tree has 8 branches in it, calculate the total number of branches.



- 2) Solve the following by using distributive property of multiplication:  $3 \times 51$
- 3) " $8 \times 49$  can be split into  $8 \times (50 - 1)$  in order to make our calculations easier." The given statement is  
a) True  
b) False
- 4) Solve using distributive property:  
a)  $13 \times (11 - 1)$   
b)  $8 \times (49 + 1)$
- 5) Which of the following shows an example of distributive property?  
a)  $6 \times (24 + 6) = 6 \times 20 = 120$   
b)  $6 \times (24 + 6) = 6 \times 30 = 180$   
c)  $6 \times (24 - 6) = 6 \times 20 = 120$   
d)  $6 \times (24 - 6) = 6 \times 30 = 180$

6) A property was put on sale. Due to COVID, the prices dipped by \$230 for first 3 three days each, and by \$70 for the next three days each. Find the total dip in the price of the property after six days.



7) Solve:  $(9 \times 41) + (9 \times 9)$

8) Match the following:

$9 \times (23 - 13)$	i. $13 \times 10 = 130$
$5 \times (26 - 6)$	ii. $9 \times 10 = 90$
$13 \times (2 + 8)$	iii. $5 \times 20 = 100$

9) Find the value obtained when forty seven times of nine is added to three times of nine.

10) Which of the following is the correct form for distributive property of subtraction?

a)  $9(28 - 8) = 252 - 72 = 180$

b)  $9(28 - 8) = 920 = 180$

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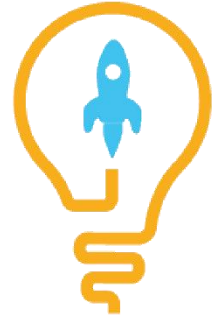
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**ANSWERS**

1)	400
2)	153
3)	a) True
4)	a. 130 b. 400
5)	b
6)	\$900
7)	450
8)	a = ii b = iii c = i
9)	450
10)	b

## FUN FACT

1. Either you can first add and then multiply, or first multiply individually then add depending on whichever is easier to solve. Result will remain same for both cases.
2. Just like that of [addition](#), [distributive property](#) can also be applied for numbers involving [subtraction](#). For example:  $4 \times 249$  can be split into  $4 \times (250 - 1)$ .
3. While solving [multiplication](#) problems involving huge numbers, it is always beneficial to “distribute” the given numbers into easier ones that can be multiplied.

