

Set Your Table For Learning!

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PFA #3 Worksheet

1. associative
2. commutative
3. distributive
4. commutative
5. distributive
6. associative
7. $y = 16$ commutative
8. $n = 3$ associative
9. $a = 15$ distributive
10. $b = 6$ distributive

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PFA #3 Worksheet

11. C 12. J 13. D 14. G

15. $12 + 8$

16. $9 \times (6 \times 4)$ OR $9 \times 6 \times 4$

17. $3 \times 5 + 3 \times 2$

18. $2 \times 4 + 2 \times 5$ 19. B 20. A

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$17) \quad 3 \times (5 + 2) = 3 \times 7$

$3 \times 5 + 3 \times 2$

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II. Using the Distributive Property

A. You can use the distributive property to help you multiply numbers together using mental math.

B. 4 easy steps for using the distributive property - **EDMA**

1. **Expand** _____ one of the numbers (two digits, fractions, decimals)
2. **Distribute** _____ the number outside the () - Trick or treat!
3. **Multiply** _____ the numbers together
4. **Add** _____ to get the final product. Be sure to check it on your calculator!

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C. Practice Problems - Use the distributive property to find these products.

1. $4 \times 56 = e$ $4 \times (50 + 6)$

d $4 \times 50 + 4 \times 6$

m $200 + 24$

a 224

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$$2. 125 \times 3 = e \quad 3 \times (100 + 20 + 5)$$

d $3 \times 100 + 3 \times 20 + 3 \times 5$

m $300 + 60 + 15$

a 375

$(100 + 20 + 5) \times 3$
 $100 \times 3 + 20 \times 3 + 5 \times 3$

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$$3. 5 \times 2 \frac{1}{2} = e \quad 5 \times (2 + \frac{1}{2})$$

d $5 \times 2 + 5 \times \frac{1}{2}$

m $10 + 2\frac{1}{2}$

a $12\frac{1}{2}$

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$$4. 7.6 \times 9 = e \quad 9 \times (7 + 0.6)$$

d $9 \times 7 + 9 \times 0.6$

m $63 + 5.4$

a 68.4

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$$5. 6 \times 254.3 = \underline{6 \cdot (200 + 50 + 4 + 3)}$$

$\underline{6 \cdot 200 + 6 \cdot 50 + 6 \cdot 4 + 6 \cdot 3}$

$\underline{1200 + 300 + 24 + 18}$

$\underline{1525.8}$

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homework:

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You MUST show all 4 steps
in the distributive property!

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