

The Distributive Property

Find each missing number.

1. $8 \times (30 + 2) = (8 \times \underline{\quad}) + (8 \times 2)$ 2. $8(94) = 8(\underline{\quad}) + 8(4)$
 3. $5(45 + 5) = 5(\underline{\quad})$ 4. $9(42) - 9(4) = 9(30) + 9(\underline{\quad})$

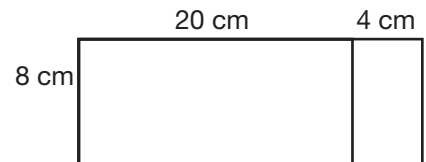
Use the distributive property and mental math to evaluate.

5. $3(58 - 8)$ _____ 6. $7(31 + 19)$ _____
 7. $9(72)$ _____ 8. $4(26) - 4(16)$ _____
 9. $8(41) + 8(5)$ _____ 10. $5(22 - 5)$ _____

11. **Writing to Explain** Describe the mental math steps you would use to find $7(42)$.

12. **Number Sense** Use mental math to evaluate the expression $6(31) + 6(4) - 6(15)$.

13. **Geometry** Write an expression for the area of this rectangle.
 Evaluate your expression to find the area.



14. **Algebra** Which expression is equal to $12m + 12n$?

- A $12mn$
 B $12m + n$
 C $12m - 12n$
 D $12(m + n)$