

NUMBER PROPERTIES



You can use the number properties to make computation easier.

Property	Addition	Multiplication
Commutative Property You can change the order in addition and multiplication problems. The answer remains the same.	$2 + 3 = 3 + 2$ $5 = 5$	$2 \times 3 = 3 \times 2$ $6 = 6$
Associative Property You can change the grouping in addition and multiplication problems. The answer remains the same.	$(2 + 3) + 5 = 2 + (3 + 5)$ $5 + 5 = 2 + 8$ $10 = 10$	$(2 \times 3) \times 5 = 2 \times (3 \times 5)$ $6 \times 5 = 2 \times 15$ $30 = 30$
Identity Property Adding zero to a number does not change the number. Multiplying a number by 1 does not change the number.	$2 + 0 = 2$ $2 = 2$	$4 \times 1 = 4$ $4 = 4$
Distributive Property Multiplication has a distributive property over addition.	$3 \times (4 + 6) = 3 \times 4 + 3 \times 6$ $3 \times 10 = 12 + 18$ $30 = 30$	

Complete.

- $9 + 0 = \underline{\hspace{2cm}}$
- $6 + 15 = 15 + \underline{\hspace{2cm}}$
- $15 \times 1 = \underline{\hspace{2cm}}$
- $3 \times 7 = \underline{\hspace{2cm}} \times 3$
- $(16 + 4.2) + 3.8 = \underline{\hspace{2cm}} + (\underline{\hspace{2cm}} + \underline{\hspace{2cm}})$
 $= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}}$

Number Properties

Answer Key

1. 9
2. 6
3. 15
4. 7
5. $16 + (4.2 + 3.8); = 16 + 8 = 24$

