

Name: _____

Associative Property: Addition

Find the answer for each problem below. Then rewrite each problem using the associative property and find the answer. Show your work in solving each problem.

Example: $3 + (2+4) = \underline{\quad 9 \quad}$

$3 + 6 = 9$

$\underline{\quad (3+2) + 4 \quad} = \underline{\quad 9 \quad}$

$5 + 4 = 9$

A) $(7+6) + 2 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

B) $5 + (10+8) = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

C) $(9+4) + 7 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

D) $(3+12) + 9 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

E) $(8+6) + 8 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

F) $(14+5) + 9 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

G) $9 + (13+2) = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

H) $11 + (6+14) = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

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Find the answer for each problem below. Then rewrite each problem using the associative property and find the answer. Show your work in solving each problem.

Example: $3 + (2+4) = \underline{9}$
 $3 + 6 = 9$

$\underline{(3+2) + 4} = \underline{9}$
 $5 + 4 = 9$

A) $(7+6) + 2 = \underline{15}$
 $13 + 2 = 15$

$\underline{7 + (6+2)} = \underline{15}$
 $7 + 8 = 15$

B) $5 + (10+8) = \underline{23}$
 $5 + 18 = 23$

$\underline{(5+10) + 8} = \underline{23}$
 $15 + 8 = 23$

C) $(9+4) + 7 = \underline{20}$
 $13 + 7 = 20$

$\underline{9 + (4+7)} = \underline{20}$
 $9 + 11 = 20$

D) $(3+12) + 9 = \underline{24}$
 $15 + 9 = 24$

$\underline{3 + (12+9)} = \underline{24}$
 $3 + 21 = 24$

E) $(8+6) + 8 = \underline{22}$
 $14 + 8 = 22$

$\underline{8 + (6+8)} = \underline{22}$
 $8 + 14 = 22$

F) $(14+5) + 9 = \underline{28}$
 $19 + 9 = 28$

$\underline{14 + (5+9)} = \underline{28}$
 $14 + 14 = 28$

G) $9 + (13+2) = \underline{24}$
 $9 + 15 = 24$

$\underline{(9+13) + 2} = \underline{24}$
 $22 + 2 = 24$

H) $11 + (6+14) = \underline{31}$
 $11 + 20 = 31$

$\underline{(11+6) + 14} = \underline{31}$
 $17 + 14 = 31$