

**Properties of operations as strategies - Independent Practice
Worksheet**

Which equation(s) show the associative property?

Select the correct answer(s).

1

$3 + (4 + 7) = (3 + 4) + 7$

$(3 + 6) + 2 = 3 + (6 + 7)$

$9 + (5 + 6) = 20$

$(3 + 8) + 9 = 1 + (8 + 9)$

2

$6 + (5 + 7) = (6 + 4) + 7$

$(4 + 1) + 8 = 4 + (1 + 7)$

$6 + (2 + 1) = (6 + 2) + 1$

$(8 + 8) + 8 = 24$

3

$9 + 9 = (9 + 0)$

$(6 + 1) + 0 = 9 + (1 + 0)$

$7 + (2 + 6) = (9 + 2) + 6$

$(7 + 5) + 9 = 7 + (5 + 9)$

4

$5 + 3 = 3 + 5$

$(4 + 1) + 8 = 4 + (1 + 8)$

$4 + (2 + 5) = (4 + 8) + 5$

$(3 + 1) + 2 = 0 + (1 + 2)$

5

$5 + (5 + 0) = (5 + 5) + 0$

$(6 + 1) + 1 = 3 + (1 + 1)$

$5 + (7 + 7) = (5 + 7) + 8$

$(6 + 2) + 2 = 6 + (1 + 2)$



Name _____

Date _____

Which equation(s) show the commutative property?
Select the correct answer(s).

6

$3 + 7 = 7 + 3$

$14 = (2 + 6) + 6$

$9 + 6 = 15$

$1 + 8 = 8 + 3$

7

$(3 + 8) + 4 = 4 + 8 + 3$

$(4 + 1) + 8 = 13$

$20 = (10 + 2 + 8)$

$6 + 4 = 4 + 6$

8

$2 + 5 = 5 + 2$

$8 + 1 + 0 = 5 + 4$

$7 + (2 + 6) = 15$

$5 + 5 + 5 = 10 + 5$

9

$6 + 4 + (2 + 1)$

$18 + 2 = 5 + 7 + 7 + 5$

$0 + (5 + 5) = (0 + 8) + 5$

$7 + 2 = 2 + 7$

10

$9 + 6 = 6 + 9$

$5 + 6 + 4 + 1 = 16$

$4 + (5 + 2) = (2 + 5) + 4$

$19 = 9 + 10$

