

Name: _____

ADDITION

Using Associative Property

Decide if the equations match by using what you know about the associative property. Write T for TRUE if the equations match and F for FALSE if they do not.

1) $(15 + 21) + 33$ _____ $14 + 10 + 10$

2) $(28 + 33) + 34$ _____ $(33 + 34) + 28$

3) $71 + (10 + 12)$ _____ $20 + 35 + 11$

4) $54 + 21$ _____ $21 + 74$

5) $(37 + 12) + 18$ _____ $(18 + 12) + 37$

6) $42 + (23 + 14)$ _____ $(14 + 42) + 23$

7) $(10 + 15) + 17$ _____ $17 + 15 + 10$

8) $82 + 16$ _____ $53 + 13$

9) $(14 + 16) + 10 + 18$ _____ $16 + 10 + (18 + 14)$

10) $36 + (19 + 21)$ _____ $(21 + 36) + 19$

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1) $(15 + 11) + 17 + 12$ _____ $12 + 15 (11 + 17)$

2) $49 + (23 + 27)$ _____ $(27 + 23) + 49$

3) $(18 + 36) + 31$ _____ $15 + (40 + 40)$

4) $27 + (41 + 12)$ _____ $27 + (11 + 11)$

5) $13 + 14$ _____ $14 + 13$

6) $34 + 12 + 45$ _____ $(34 + 45) + 12$

7) $26 + 20$ _____ $40 + 21$

8) $52 + 15 + 17$ _____ $(17 + 15) + 52$

9) $19 + (48 + 10)$ _____ $20 + 14 + 13$

10) $13 + 19 + (12 + 15)$ _____ $(19 + 12) + 15 + 13$