Name _____

Reteaching
1.5b Mental Math – Methods

Compatible Numbers –

Numbers that add or multiply together easily are called compatible. Use the commutative property to organize the sets for easy computation

13 + 28 + 17 + 12	=	13 + 17 + 28 + 12
31 + 17 + 12	=	30 + 40
48 + 12	=	70

Compensation –

You can add and subtract values to the addends as long as you keep the equation balanced!

27 + 35   =   30 is easier to add so I'll give the 27 three from the 35

27 + 35   =   62

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62 - 48   =   I'd rather subtract 50 so I'll add 2 to both terms

64 – 50   =   14

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48 * 9   =   I'd rather * 10 so I'll multiply by 10 then subtract 48

48 * 10   =   480 – 48   =   482 - 50   =   432

Distributive Property –

You can use the distributive property to simplify multiplication problems.

32 x 7	=	(30 * 7) + (3 * 2)	52 * 40	=	(50 * 40) + (2 * 40)
		210 + 6 = 216			2000 + 80 = 2080

Choose a mental math strategy and rewrite each of the following to model your mental math.

1) 47 + 84 + 13 + 16

        Compatible
_____

     47 + 13 + 84 + 16
_____

   = 60 + 100 = 160
_____

2) 68 * 7

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3) 34 - 17

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4) 28 + 37 + 18

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