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Algebra	Name	Name:	
Equations with Variables on Both		l: #:	
Solve each equation. Check your	r answers. If appropriate, write id	lentity or no solution.	
1. $7 - 2n = n - 14$	2. $2(4-2r) = -2(r+5)$	3. $3d + 8 = 2d - 7$	
4. $6t = 3(t+4) - t$	5. $8z - 7 = 3z - 7 + 5z$	6. $7x - 8 = 3x + 12$	
7. $3(n-1) = 5n + 3 - 2n$	8. $2(6-4d) = 25-9d$	9. $4s - 12 = -5s + 51$	
10  8(2f  3) = 4(4f  8)	11 6k 25 - 7 2k	12  3y  0 = 7 + 2y  y	
10. $8(2f-3) = 4(4f-8)$	11. $6k - 25 = 7 - 2k$	12. $3v - 9 = 7 + 2v - v$	
13. $4(b-1) = -4 + 4b$	14. $\frac{1}{4}x + \frac{1}{2} = \frac{1}{4}x - \frac{1}{2}$	15. $6 - 4d = 16 - 9d$	

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Write an equation for each situation. Then solve and check your answer.

16. Hans needs to rent a moving truck. Suppose Company A charges a rate of \$40 per day and Company B charges a \$60 fee plus \$20 a day. For what number of days is the cost the same?

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17. Suppose a video store charges nonmembers \$4 to rent each video. A store membership costs \$21 and members pay only \$2.50 to rent each video. For what number of videos is the cost the same?

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18. Suppose your club is selling candles to raise money. It costs \$100 to rent a booth from which to sell the candles. If the candles cost your club \$1 each and are sold for \$5, how many candles must be sold to equal your expenses?

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