

NAME: _____

PER: _____

INEQUALITY APP. REVIEW

1. A bakery sells a box of 12 cookies for \$10.50 and charges \$0.24 for each additional cookie. If Marshall has \$20.00 to buy the box of cookies and additional cookies, what is the maximum number of additional cookies he can buy?
2. Peter begins his kindergarten year able to spell 10 words. He is going to learn to spell 2 new words every day. What is the minimum number of whole days it will take for him to be able to spell at least 75 words?
3. The entertainment committee voted to hire a DJ for the school dance. The DJ charges a \$75 set-up fee plus \$30 per hour for playing music. The committee has a budget of \$200, which they cannot exceed. Which inequality represents the number of hours the DJ can be booked?
4. Tamara has a cell phone plan that charges \$0.07 per minute plus a monthly fee of \$19.00. She budgets \$29.50 per month for total cell phone expenses without taxes. What is the maximum number of minutes Tamara could use her phone each month in order to stay within her budget?
5. Triniti had \$500 in a saving account at the beginning of the summer. She wants to have at least \$200 in the account by the end of the summer. She withdraws \$25 each week for food, clothes, and movie tickets.
6. Kevin has \$25. MP3 downloads cost \$0.75 each. How many songs can he download and still have \$13 left to spend?
7. Daniel had \$25 to spend at the fair. If the admission to the fair is \$4 and the rides cost \$1.50 each, what is the greatest number of rides Daniel can go on?

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8. The seventh grade class is putting on a variety show to raise money. It cost \$700 to rent the banquet hall that they are going to use. If they charge \$15 for each ticket, how many tickets do they need to sell in order to raise at least \$1000?
9. Jess saved \$500 working during the summer. He plans to buy school clothes with his money. He found jeans he liked for \$30 per pair, including tax, and shirts for \$17, including tax. If he buys exactly twice as many shirts as jeans, how many pairs of jeans can Jess buy without exceeding \$500?
10. Patty needs a total of \$80 to buy a bicycle. She has already saved \$35. If she saves \$10 a week from her earnings, what is the least number of weeks she must work to have enough money to buy the bicycle?
11. The cost of a telephone call is \$0.60 for the first three minutes plus \$0.17 for each additional minute. What is the greatest number of whole minutes the telephone call can be if the cost cannot exceed \$2.50?
12. Ryan is a wrestler trying to make weight. He currently weighs 200 lbs. If he cuts 2 lbs. per week, how many weeks will it take him to weigh less than 175 lbs.?
13. A taxi charges a flat rate of \$1.75, plus an additional \$0.65 per mile. If Erica has at most \$10 to spend on the cab ride, how far could she travel?
14. Justin wants to have at least a 75 test average in Algebra 1 this six weeks. He will have 3 test grades. He received a 72 and a 76 on the first two tests. What must he make on the third test to receive at least a 75 test average?
15. The charge per mile for a compact rental car at 4-D Rentals is \$0.12. Mrs. Rodriguez is on a business trip and must rent a car to attend various meetings. She has a budget of \$60 per rental for mileage charges. What is the greatest number of miles Mrs. Rodriguez can travel without going over her budget?