Linear	Theo	jualities	1 T7
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Multi-Step Inequalities Day 2

Extra Practice

1) Identify the varrable (5) Name

Name

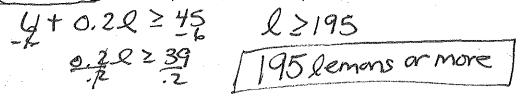
Period

(Algebraic method)

Write and solve each inequality.

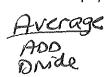
1. A crate weighs 6 kg when empty. A lemon weighs about 0.2 kg. For economical shipping the crate with lemons must weigh at least 45 kg) How many lemons should be put in the crate?

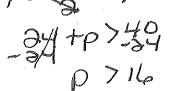


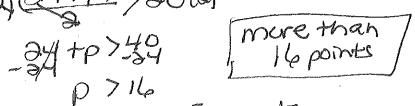


2. Jillene is playing in a basketball tournament and scored 24 points in her first game. If she averages Average (2) (24+p) > 20(2)
ADD
DNide 24+1 over 20 points for both games, she will receive a trophy. How many points can Jillene score in the second game to receive a trophy?







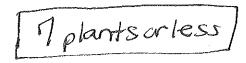


3. Bink brought \$23) with her to the county fair. She purchased a \$5 tee-shirt and now wants to purchase plants for \$2.50 each. What number of plants can she purchase with her money?

Plants:/p)

$$5 + 2.50p \le 23$$

 $\frac{2.50p}{2.50} \le \frac{18}{2.5}$
 $p \le 7.2$



4. Suppose a triangle has sides that measure 7 feet and 9 feet. Given the perimeter of the triangle is between 20 and 32, what are the possible values for the third side?





5. Ms. Cramer took her dog Snickers to the vet. The veterinarian wants Snickers to weigh between 62 lbs and 68 lbs. Snickers currently weighs 74 lbs. Ms. Cramer thinks that Snickers will lose two - > - > pounds a week when they go jogging. Which inequality represents how many weeks Ms. Cramer needs to jog with Snickers to achieve the goal weight? W: Weeks

b.
$$62 < 2x - 74 \le 68$$

c.
$$62 < 74 - x < 68$$

Linear Inequalities LI7

Solve and graph each

8.
$$3-2(x+4)>3$$
 check
 $3-2x-873$ $x=-5$
cut $-2x-573$ $3-2(-5+4)$
 $-2x>8$ $3-2(-1)>3$
 $-2x>8$ $3+2>3$
 $x=-5$
 $x=-2(-1)>3$
 $x=-2(-1)>3$
 $x=-2(-1)>3$
 $x=-2(-1)>3$

nequality.
check 9. $12(x-3) + 2x \le 6$
X
3-21-5+4)73 CUT 14 X-3/6 5 6 136
-2(-1)>3
3+273 / 一方
5734 18 53
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3

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Benedict, Ricardo, and Charlie are considering opportunities for summer work. The table below shows the jobs open to them and the pay for each. Use this information to answer the following questions.

Job	Pay		
Mowing Lawns	\$15 per lawn		
Baby-Sitting	\$5.50 per hour		
Tutoring	\$9 per session		

11. Benedict has saved \$91 from last year and would like to baby-sit to earn enough to buy a mountain bike. A good quality bike costs (at least \$300.) What number of hours h can Benedict baby-sit to reach his goal?

a.
$$h \ge 14$$

b.
$$h \ge 23$$

d.
$$h \ge 71$$

39 persession 12. Ricardo has agreed to tutor for the school. He was his older brother \$59 and would like to end the summer with at least \$400 in savings. How many sessions can Ricardo tutor to meet his goal?

13. Charlie has agreed to mow his neighbor's lawn once a week and will also baby-sit some hours. If he makes \$100 or more each week) his parents will charge him rent. How many hours h should Charlie agree to baby-sit each week to avoid paying rent?

(a.
$$h \le 15$$
) b. $h \ge 15$
 $|5| + 5.50h \le 100$
 $|5| + 5.50h \le 85$
 $|5| + 5.50$

c.
$$h \le 21$$
 d. $h \ge 2$

d.
$$h \ge 21$$

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