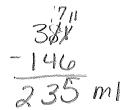
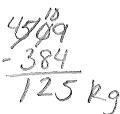
Name	Date

- 1. Solve the subtraction problems below.
- a. 381 mL 146 mL

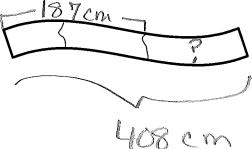


b. 730 m - 426 m

c. 509 kg - 384 kg



2. The total length of a banner is 408 centimeters. Carly paints it in 3 sections. The first 2 sections she paints are 187 centimeters long altogether. How long is the third section?



221cm

The third section is 221cm.

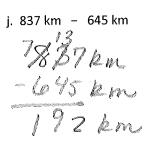
Name	 		

Date

1. Solve the subtraction problems below.

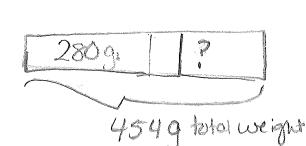
d. 607 cm - 32 cm

i. 572 km - 266 km 5972km -266km 306km



2. A magazine weighs 280 grams less than a newspaper. The weight of the newspaper is shown below. How much does the magazine weigh? Use a tape diagram to model your thinking.





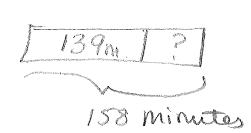


- 3. The chart to the right shows how long 3 games take.
  - a. Francesca's basketball game is 22 minutes shorter than Lucas' baseball game. How long is Francesca's basketball game?

Lucas' Baseball Game	180 minutes
Joey's Football Game	139 minutes
Francesca's Basketball Game	minutes

188 - 22 158 minutes Francesca's game is 158 minutes.

b. How much longer is Francesca's basketball game than Joey's football game?



Francesca's basketball game is 19 minutes longer.



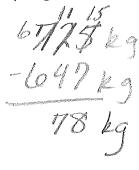
Lesson 18:

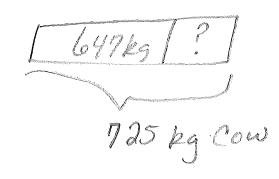
Decompose once to subtract measurements including three-digit minuends with zeros in the tens or ones place.

Name	Date
Name	

- 1. Solve the subtraction problems below.
  - a. 346 m 187 m 2 3 16 m -187m 159 m

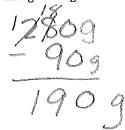
- b. 700 kg 592 kg
- 2. A sheep weighs about 647 kilograms less than a cow. A cow weighs about 725 kilograms. About how much does a sheep weigh?



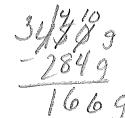


A Sheep weighs 78 kg.

- 1. Solve the subtraction problems below.
  - a. 280 g 90 g



b. 450 g - 284 g

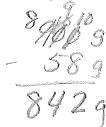


c. 423 cm - 136 cm

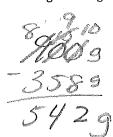
3428cm -136cm 287 cm d. 567 cm - 246 cm

567 cm - 246 cm 321 cm

e. 900 g - 58 g

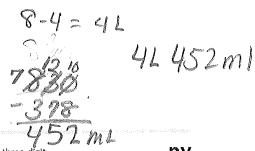


f. 900 g - 358 g



g. 4 L 710 mL - 2 L 690 mL

h. 8 L 830 mL - 4 L 378 mL





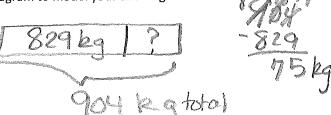
Lesson 19:

Date:

Decompose twice to subtract measurements including three-digi minuends with zeros in the tens and ones places. 7/5/13

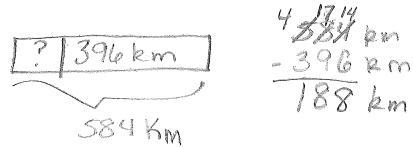
This work is licensed under a

2. The total weight of a giraffe and her calf is 904 kilograms. How much does the calf weigh? Use a tape diagram to model your thinking.





3. The Erie Canal runs 584 kilometers from Albany to Buffalo. Salvador travels on the canal from Albany. He must travel 396 kilometers more before he reaches Buffalo. How many kilometers has he traveled so far?



alvador has traveled 188 km so far.

4. Mr. Nguyen fills two inflatable pools. The kiddie pool holds 185 liters of water. The larger pool holds 600 liters of water. How much more water does the larger pool hold than the kiddie pool?



d 415 more liters.



Lesson 19: Date:

Decompose twice to subtract measurements including three-digit minuends with zeros in the tens and ones places. 7/5/13

Α	Daying to the progress by	undrad			# Correct
1	Round to the nearest house 201 ≈	200	23	350 ≈	400
2	301 ≈	300	24	1350 ≈	1.400
3	401 ≈	400	25	450 ≈	500
4	801 ≈	800	26	5450 ≈	5,500
5	1801 ≈	1,800	27	850 ≈	1900
6	2801 ≈	2,800	28	6850 ≈	10,900
7	3801 ≈	3,800	29	649 ≈	600
8	7801 ≈	7,800	30	651 ≈	700
9	290 ≈	300	31	691 ≈	700
10	390 ≈	400	32	791 ≈	800
11	490 ≈	500	33	891 ≈	900
12	890 ≈	900	34	991 ≈	1,000
13	1890 ≈	1.900	35	995 ≈	1,000
14	2890 ≈	2900	36	998 ≈	1,000
15	3890 ≈	3.900	37	9998 ≈	16,000
16	7890 ≈	7,900	38	7049 ≈	7,000
17	512 ≈	500	39	4051 ≈	4,100
18	2512 ≈	2.500	40	8350 ≈	8,400
19	423 ≈	400	41	3572 ≈	3,600
20	3423 ≈	3,400	42	9754 ≈	9,700
21	677 ≈	700	43	2915 ≈	2,900
22	4677 ~	La ran	11	9996 ≈	1 10.000



Lesson 20:

Date:

Estimate differences by rounding and apply to solve measurement word problems. 7/5/13

В	Round to the nearest hu	Improve	mer	nt	# Correct
1	101 ≈	100	23	250 ≈	300
2	201 ≈	200	24	1250 ≈	1,300
3	301 ≈	300	25	350 ≈	400
4	701 ≈	700	26	5350 ≈	5,400
5	1701 ≈	1,700	27	750 ≈	800
6	2701 ≈	0,700	28	6750 ≈	6,800
7	3701 ≈	3,700	29	649 ≈	600
8	8701 ≈	8,700	30	652 ≈	700
9	190 ≈	200	31	692 ≈	700
10	290 ≈	300	32	792 ≈	800
11	390 ≈	Yes	33	892 ≈	920
12	790 ≈	800	34	992 ≈	
13	1790 ≈	1,800	35	996 ≈	1,000
14	2790 ≈	2.800	36	999 ≈	1,000
15	3790 ≈	3,800	37	9999 ≈	10,000
16	8790 ≈	8,800	38	4049 ≈	4000
17	412 ≈	400	39	2051 ≈	2,000
18	2412 ≈	2,400	40	7350 ≈	7,400
19	523 ≈	500	41	4572 ≈	4,600
20	3523 ≈	3,500	42	8754 ≈	8,700
21	877 ≈	900	43	3915 ≈	3,900
22	4877 ≈	4,900	44	9997 ≈	10,000

© Bill Davidson



Lesson 20:

Date:

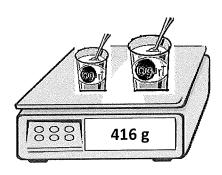
Estimate differences by rounding and apply to solve measurement word problems.

7/5/13

engage<sup>ny</sup>

N1	Date
Name	

1. Kathy buys a total of 416 grams of frozen yogurt for herself and a friend. She buys 1 large cup and 1 small cup.



Large Cup	363 grams
Small Cup	? grams

a. Estimate how many grams are in a small cup of yogurt by rounding.

b. Estimate how many grams are in a small cup of yogurt by rounding in a different way.

How many grams are actually in a small cup of yogurt?

d. Is your answer reasonable? Which estimate was closer to the exact weight? Explain why.

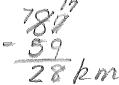
My answers is reasonable. When J rounded to the nearest 10 my answer was closer because my numbers I rounded were closer to the actual numbers

7/5/13

Name	Date

Estimate, and then solve each problem.

- 1. Melissa and her mom go on a road trip. They drive 87 kilometers before lunch. They drive 59 kilometers
  - a. Estimate how many more kilometers they drive before lunch than after by rounding to the nearest 10 90-60=30 km
  - b. Precisely how much farther do they drive before lunch than after lunch?



c. Compare your estimate from (a) to your answer from (b). Is your answer reasonable? Write a sentence to explain your thinking.

My answer is reasonable it is within 2km of the precise answer.

- 2. Amy measures ribbon. She measures a total of 393 centimeters of ribbon and cuts it into 2 pieces. The first piece is 184 centimeters long. How long is the second piece of ribbon?
  - a. Estimate the length of the second piece of ribbon by rounding in two different ways.

b. Precisely how long is the second piece of ribbon? Explain why one estimate was closer.

The Estimate of 210 cm -184 were I rounded to the nearest 10 was closer h nearest 10 was closer because the estimate is closer to the real numbers.



Lesson 20:

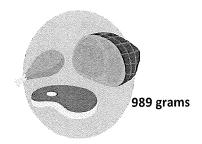
Date:

Estimate differences by rounding and apply to solve measurement

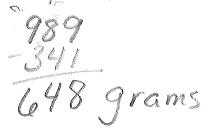
7/5/13

- 3. The weight of a chicken leg, steak, and ham are shown to the right. The chicken and the steak together weigh 341 grams. How much does the ham weigh?
  - a. Estimate the weight of the ham by rounding.





b. How much does the ham actually weigh?



- 4. Kate uses 506 liters of water each week to water plants. She uses 252 liters to water the plants in the greenhouse. How much water does she use for the other plants?
  - a. Estimate how much water Kate uses for the other plants by rounding.

b. Estimate how much water Kate uses for the other plants by rounding a different way.

c. How much water does Kate use for the other plants? Which estimate was closer? Explain why.

4886 254 liters

When I rounded to the nearest 10 my answer was Closer because my numbers were closer to the numbers in the actual problem.



Lesson 20:

Estimate differences by rounding and apply to solve measurement word problems.

engage<sup>ny</sup>

Name Date	Name	me	Date
-----------	------	----	------

Rogelio drinks water at every meal. At breakfast he drinks 237 milliliters. At lunch he drinks 300 milliliters. At dinner he drinks 177 milliliters.

a. Estimate the total amount of water Rogelio drinks. Then find the actual amount of water he drinks at all 3 meals.

B 
$$237 \text{ ml} \approx 240 \text{ ml}$$
 240  
L  $300 \text{ ml} \approx 300 \text{ ml}$  300  
D  $177 \text{ ml} \approx 180 \text{ ml}$  720 ml est. actual

b. Estimate how much more water Rogelio drinks at lunch than at dinner. Then find how much more water Rogelio drinks at lunch than at dinner.

- 3. The Blue Team runs a relay. The chart shows the time in minutes that each team member spent running.
  - a. How many minutes does it take the Blue Team to run the relay?

Blue Team	Time in Minutes
Jen	5 minutes
Kristin	7 minutes
Lester	6 minutes
Evy	8 minutes
Total	26 min

b. It takes the Red Team 37 minutes to run the relay. Estimate, and then find the difference in time between the 2 teams.

- 4. The lengths of 3 banners are shown to the right.
  - Estimate, and then find the total length of Banner A and Banner C.

Banner A	437 cm
Banner B	457 cm
Banner C	332 cm
Danner C	002 0111

Estimate, and then find the difference in length between Banner B and the total length of Banner A and Banner C. Model the problem with a tape diagram.

estimate



Lesson 21:

Estimate sums and differences of measurements by rounding, and then solve mixed word problems.

Date

- 1. There are 153 milliliters of juice in 1 carton. A 3-pack of juice boxes contains a total of 459 milliliters.
  - a. Estimate, and then find the total amount of juice in 1 carton and a 3-pack of juice boxes.

153 mL + 459 mL 
$$\approx$$
 150 + 460 = 610 460 670

b. Estimate, and then find the difference between the amount in 1 carton and a 3-pack of juice boxes.

Estimate, and then find the difference between the amount in 1 carton and a 3-pack of juice boxe 459 mL - 153 mL 
$$\approx \frac{460 + 150}{310} = \frac{310}{310}$$
 ml  $= \frac{459}{310}$  ml  $= \frac{306}{306}$  Are your answers reasonable? Why?

Are your answers reasonable? Why?

- 2. Mr. Williams owns gas stations. He sells 367 liters of gas in the morning, 300 liters of gas in the afternoon, and 219 liters of gas in the evening.
  - a. Estimate, and then find the total amount of gas he sells in one day.

Stimate, and then find the total amount of gas he sells in one day. 
$$370 \times 370 \times 37$$

b. Estimate, and then find the difference between the amount of gas Mr. Williams sells in the morning and the amount he sells in the evening

Morning - evening = difference

$$367 - 219 = 148$$
 $367 - 219 = 148$ 
 $370 - 220 = 150$  estimate

(cc) BY-NC-SA