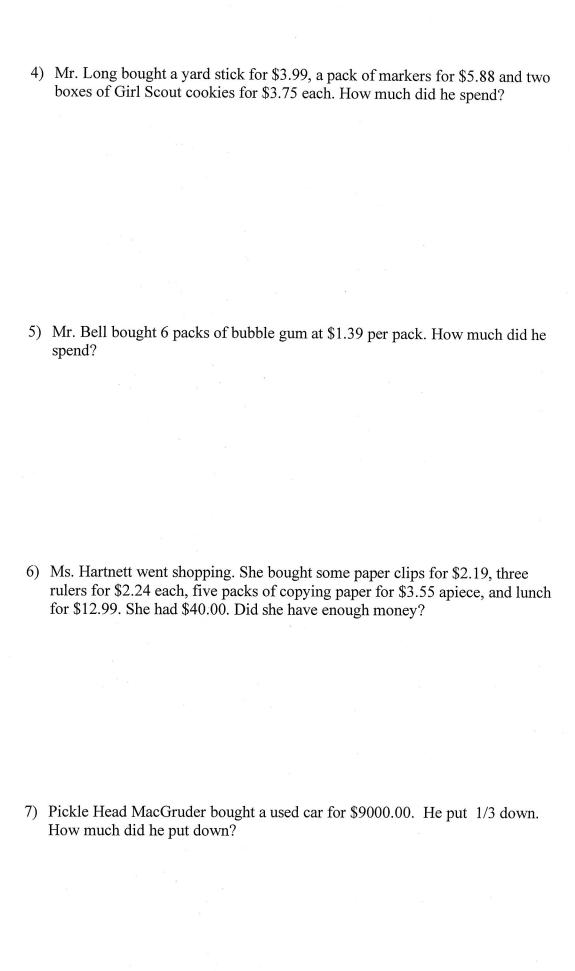
Review Problems for Benchmark

1)	Mr. Booth went shopping with \$35.00. He bought his wife some flowers for \$27.50. How much money does he have left?
2)	Mrs. Railey went to the store and bought a bag of candy for \$12.50 (It was a huge bag of candy.) and a pack of pencils for \$3.49. How much money did she spend?

3) Mrs. Railey gave the cashier \$20.00 for her purchase in problem 2. How much change did she get?



8) How much did Pickle Head still owe?	3
9) If Pickle Head paid \$150.00 a month, how many months would he have to pabefore the car is all paid for?	У
10) Beavis bought three drinks at \$2.19 each, six hot dogs at \$1.09 each, and three movie tickets at \$8.50 each. How much did Beavis spend?	;

The separate will be

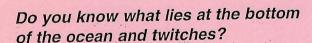


Puzzles, Twisters & Teasers Bargain Hunter

You are a professional shopper. You've been asked to use your shopping skills to find the best buy among the following cereals. You must determine which of these cereals costs the least per ounce.

Type of Cereal	Size of Box	Price per Box
Frostee O's	22.5 oz	\$12.60
Super Sugar Loops	9.9 oz	\$2.97
Marshmallow Bonanza	22.8 oz	\$3.42
Tyrannosaurus Rings	6.6 oz	\$3.30
Wheat and Rice Explosion	35.6 oz	\$3.56
Giant Frosted Oatees	10.0 oz	\$6.10
Ned's Enormous O's of Sugar	15.5 oz	\$1.86

Type of Cereal	Price per UZ
Frostee O's	
Super Sugar Loops	
Marshmallow Bonanza	
Tyrannosaurus Rings	
Wheat and Rice Explosion	
Giant Frosted Oatees	
Ned's Enormous O's of Suga	ir



To find out, fill in the capital letters from the *second* best bargain cereal in order in the spaces below. Then fill in the capital letters in order from the *best* bargain cereal and you should have the answer!

Α	 F	R V	_ U _	- 7
		C K!		





Foxway Weekly Individual Expense Record

Name:	r j	
Week Begin Date:		Week End Date:
		·
Sunday (date:)	Expenses:	
Monday (date:)	Expenses:	
Tuesday (date:)	Expenses:	
Wednesday (date:)	Expenses:	
(date:)	Expenses:	
(date:)	Expenses:	
Saturday (date:)	Expenses:	•

Foxway Weekly Individual Expense Record

Name:	* }	
Week Begin l	Date:	Week End Date:
Sunday (date:)	Expenses:	
Monday (date:)	Expenses:	
Tuesday (date:)	Expenses:	
Wednesday (date:)	Expenses:	
Thursday (date:)	Expenses:	
Friday (date:)	Expenses:	
Saturday (date:)	Expenses:	

Lesson 3-5

Example 1 Add Decimals Find the sum of 53.6 and 25.1.

$$53.6 + 25.1 \rightarrow 54 + 25 = 79$$

Line up the decimal points.

Add as with whole numbers.

The sum of 53.6 and 25.1 is 78.7.

Compare to the estimate.

Example 2 Subtract Decimals Find 9.537 - 5.315.

$$9.537 - 5.315 \rightarrow 10 - 5 = 5$$

Line up the decimal points.

Subtract as with whole numbers.

So,
$$9.537 - 5.315 = 4.222$$

Compare to the estimate.

Example 3 Annex Zeros

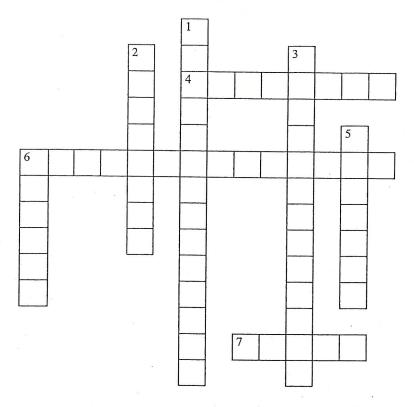
Find 8 - 3.54.

$$8 - 3.54 \rightarrow 8 - 4 = 4$$

$$\frac{-3.54}{4.46}$$

So, 8 - 3.54 = 4.46. Compare to the estimate.

6.8 Vocabulary Crossword



ACROSS

- 4 How much someone makes or takes in
- 6 Money coming in is equal to money going out
- 7 Goods and services an individual must have to survive

DOWN

- 1 Money set aside or budgeted for unanticipated but necessary expenditures
- 2 How much someone spends or pays out
- 3 Expenses that do not generally change from month to month
- 5 Spending more than you have from income
- 6 A tool used to plan how money is spent

Lesson 3-4

Example 1 Use Estimation to Solve Problems
FAST FOOD Estimate the total amount of sandwiches sold weekly if 32.5 thousand burgers are sold and 18.3 thousand chicken sandwiches are sold.

Round each number to the nearest ten for easier adding.

There are about 50 thousand sandwiches sold.

Example 2 Use Estimation to Solve Problems
ATHLETIC SHOES One store has a particular pair of athletic shoes priced at \$49.95. A second store has the same shoes priced at \$62.49. Estimate the difference in the prices at the two stores.

$$\$62.49 \rightarrow \$60$$
 \$62.49 rounds to \$60.
 $-\$49.95 \rightarrow -\50 \$49.95 rounds to \$50.

The difference in the two prices is about \$10.

Example 3 Use Front-End Estimation Estimate 42.5 + 31.3 using front-end estimation.

Add the front digits. Then add the next digits. 42.5
$$+ 31.3 \rightarrow \frac{+ 31.3}{7}$$
 $\rightarrow \frac{1.3}{73}$

Using front-end estimation, 42.5 + 31.3 is about 73.

Attacking Word Problems

ame:		Date:	
	Words	s/Phrases	
Add	Subtract	Multiply	Divide
		L. J.	

Lesson 2 Estimation Practice

Name: _____ Date: ____

- 1. Estimate each of the following problems.
- 2. Indicate which method of estimation you used for each problem.
- 3. Solve each problem.
- 4. Compare your solutions with your estimations to check for reasonableness.

a.
$$42.7 + 68.9 =$$

b.
$$3.001 + 0.957 =$$

c.
$$3.02 - 1.99 =$$

d.
$$112.25 - 36.49 =$$

e.
$$28.5 \times 0.34 =$$

f.
$$1.48 \times 0.55 =$$

g.
$$78.6 \div .2 =$$

h.
$$85.55 \div 2.5 =$$

SOL 6.7

Estimate to solve the problems.

1. The members of the basketball team sold 884 pizzas during a fundraiser. Each pizza sold for \$9.95. About how much money did the member raise?

- 2. Stephanie earned \$ 283.25 selling picture frames at a craft fair. She sold each frame for \$9.75. About how many picture frames did she sell?
 - 3. A bag of potting soil contains 90 cups of soil. A small flowerpot uses about 2 1/4 cups of soil. About how many flower pots can be filled from the whole bag
 - 4. In 1900, the population of Virginia was 1,854,184. In 2000, the population was 7,078,515. About how many people lived in Virginia in 2000 than in 1900?

Lesson 2 Estimation Practice

Name: _____ Date: ____

- 1. Estimate each of the following problems.
- 2. Indicate which method of estimation you used for each problem.
- 3. Solve each problem.
- 4. Compare your solutions with your estimations to check for reasonableness.

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DATE PERIOD

Study Guide and Intervention

Estimating Sums and Differences

Estimation Methods			
Rounding Estimate by rounding each decimal to the nearest whole number that is easy for you to add or subtract mentally.			
Front-End Estimation Estimate by first adding or subtracting the front digits. Then add or subtract the next digits.			
Clustering Estimate by rounding a group of close numbers to the same number.			

EXAMPLE Estimate 14.07 + 43.22 using front-end estimation.

Add the front digits.

Add the next digits.

$$14.07 \\ + 43.22$$

$$+43.22$$
57.00

5

An estimate for 14.07 + 43.22 is 57.

Use clustering to estimate \$7.62 + \$7.89 + \$8.01 + \$7.99.

To use clustering, round each addend to the same number.

$$\rightarrow$$

$$8.01 + 7.99$$

$$+ 8.00$$

$$\frac{+ 8.00}{32.00}$$

8.00

An estimate for \$7.62 + \$7.89 + \$8.01 + \$7.99is \$32.

EXERCISES

Estimate using rounding.

$$3. 4.65 + 4.44$$

Estimate using front-end estimation.

Estimate using clustering.

9.
$$6.87 + 6.97 + 7.39$$



NAME DATE PERIOD ____

Practice: Word Problems

Estimating Sums and Differences

SPORTS For Exercises 1-3, use the table.

The table shows the percent of annual hospital visits due to sports injuries by males 15 to 19 years of age.

Percent of Male Sports-Related Injuries in the U.S., 2000–2001				
Sport	Percent	Sport	Percent	
Basketball	25.9	Boxing, Wrestling	4.4	
Football	21.3	Exercise	3.8	
Baseball/softball	4.1	Bicycling	8.1	
Soccer	4.6	Skateboarding	3.6	

- 1. Use clustering to estimate the total number of hospital visits due to injuries in baseball/softball, exercising, skateboarding, and boxing.
- 2. Use rounding to estimate how many more visits were due to football injuries than to soccer injuries.

- **3.** Use front-end estimation to estimate the total number of visits caused by injuries in basketball and skateboarding.
- 4. BASKETBALL Len dribbled a basketball for 43 seconds before Greg got the ball away. Then Greg dribbled the ball for 11.525 seconds before Len got the ball. Use front-end estimation to estimate how many more seconds Len dribbled the ball than Greg.
- 5. GARDENING Kevin is going to plant three new types of vegetables in his garden. The garden store sells packages of tomatillo seeds for \$1.67, chili pepper seeds for \$0.89, and pumpkin seeds for \$2.32. Use rounding to estimate how much Kevin will spend on all three packets of seeds.
- 6. TRAVEL Gloria drove 53.2 miles to her grandmother's home. From her grandmother's home she drove 12.67 miles to her aunt's home. Use front-end estimation to estimate how many miles Gloria drove to get to her aunt's home. Then use rounding to estimate the number of miles again.



Practice: Skills

Estimating Sums and Differences

Estimate using rounding.

$$1. 2.32 + 2.52$$

$$3.18.93 + 27.45$$

Estimate using front-end estimation.

Estimate using clustering.

13.
$$59.62 + 60.4 + 60 + 61$$

15.
$$8.2 + 7.8 + 7.2 + 7.99$$

16.
$$89.04 + 87.55 + 90.101 + 91$$

18.
$$\$1.44 + \$0.86 + \$1.00 + \$0.7$$

Enrichment

Horizontal Estimation

Many times an addition problem is given to you in *horizontal form*, with the addends written from left to right. To estimate the sum, you don't have to rewrite the addition vertically in order to line up the decimal points. Just use place value to figure out which digits are most important. Here is an example.

3.11 + 0.4639 + 8.205

The most important digits are in the ones place.

3 + 0 + 8 = 11

The next group of important digits are in the tenths place.

1 tenth + 4 tenths + 2 tenths = 7 tenths

Add to make your estimate: 11 + 7 tenths \rightarrow about 11.7

Estimate each sum.

1.
$$7.44 + 0.2193$$

2.
$$0.4015 + 9.3 + 3.264$$

3.
$$0.4208 + 0.16$$

4.
$$0.52 + 0.1 + 0.308 + 0.0294$$

6.
$$12.004 + 1.5 + 4.32 + 0.1009$$

7.
$$6.72 + 0.5037$$

8.
$$0.805 + 1.006 + 0.4 + 2.0305$$

9.
$$1.208 + 3.1 + 0.04 + 6.143 + 0.3075$$

10.
$$0.9005 + 5.03 + 7.108 + 0.004 + 10.7$$

This same method works when you need to estimate a sum of much greater numbers. Estimate each sum.

14.
$$7,095 + 12,402 + 3,114 + 360$$

A decimal representation of a family budget is given below:

Part Allocated
0.30
0.25
0.20
0.10
0.05
0.10

- 5. If a family's monthly take-home income is \$4,000, how much of this total money is allocated to housing and savings?
- A \$1,040
- B \$1,100
- C \$1,400
- D \$2,100
- 6. The sign below shows some prices at a stadium concession stand. How much would it cost for 7 drinks and 8 hamburgers?

ITEM	PRICE
Hamburgers	2 for \$6
Chips	4 for \$2
Drinks	5 for \$5

- A \$17
- B **\$29**
- **C** \$31
- **D** \$45
- 7. Maria spent a total of \$85.39 at the garden center, including tax. She bought 2 rose bushes for \$25.99 each, 3 bags of potting soil for \$4.28 each, and a bag of fertilizer for \$16.50. How much tax did Maria have to pay on her total purchase?
- **A** \$4.07
- **B** \$8.35
- **C** \$13.56
- **D** \$38.62

2. The chart below shows 4 different rate plans for a certain cellular phone company. The costs include taxes and fees. How much would it cost if Cecilia used her phone for 625 minutes under rate plan B?

Cellular Phone Rates

Rate Plan	A.	į B	C	D
Number of Minutes Included	300	500	1000	1500
Cost Per Month	\$34.95	\$69,95	\$99.95	\$124.95
Cost for Each Additional Minute	\$0.38	\$0,32	\$0.28	\$0.22

- A \$70.27
- **B** \$77.95
- C \$94.95
- D \$269.95
- 3. A drama club needs 400 lights to decorate the stage for a play. A string of 50 lights costs \$3.98, including tax. How much would it cost the drama club to buy the lights needed to decorate the stage?
- A \$159.20
- **B** \$53.98
- C \$31.84
- **D** \$8.00
- 4. Frances and Sophia bought candy bars for their whole class. Frances spent \$4.50 of her money, and Sophia spent \$6.75. If they brought 25 candy bars that all cost the same amount, what was the cost per candy bar?
- A \$0.25
- **B** \$0.35
- C \$0.45
- D \$0.55

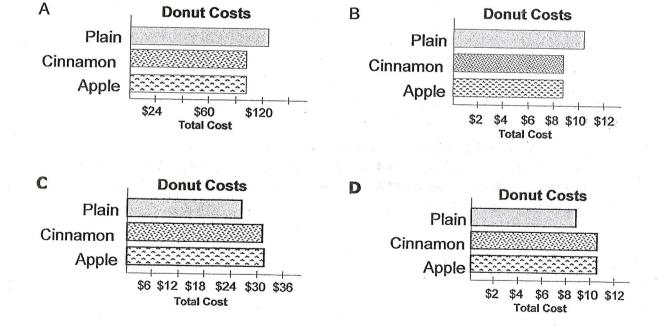
Name	
Class Period	
Date	

S.O.L. 6.8 Class Practice Questions

 Your class has 36 members, and one-third of them want plain donuts. Of the remaining class members, half want cinnamon donuts and half want apple donuts. Each student gets 3 donuts.

Donut Price List		
Plain		
\$2.90 per dozen		
Cinnamon		
\$3.50 per dozen		
Apple		
\$3.50 per dozen		

Which bar graph below correctly shows the total cost of each flavor of donut?



- 8. Juan started his vacation with a full tank of gasoline. He used $\frac{1}{4}$ of the tank of gasoline driving to his first stop, and another $\frac{3}{8}$ of a tank driving to his second stop. How much gasoline did Juan have left in the tank?
- A $\frac{3}{8}$ of a tank
- $\mathbf{B} \quad \frac{1}{4} \text{ of a tank}$
- $C = \frac{5}{8}$ of a tank
- $D = \frac{1}{3}$ of a tank
- 9. Tanequia spent all of the money that she just received for her birthday. She bought a CD player for \$45.75, and several CD's for \$10.50 each. If she spent \$98.25, how many CD's did she buy?
- A 5 CD's
- **B** 4 CD's
- C 7 CD's
- **D** 6 CD's
- 10. Tony bought 2 shirts for a total of \$32 and 4 equally priced pants. He spent a total of \$136, not including tax. Find the price of each pair of pants.
- A \$22
- B \$26
- C \$34
- D \$42

Name	
Date	
Class	

6.8 Vocabulary Quiz



1.	a tool used to plan how money is spent
2	money set aside or budgeted for unanticipated but necessary expenditures
3	goods and services an individual must have to survive
4	how much someone spends or pays out
5	spending more than you have from income
6	how much someone makes or takes in
7	money coming in is equal to money going out
8	expenses that do not generally change

Balanced budget
Expenses
Deficit
Emergency Funds
Fixed expenses
Needs
Earnings
Budget



Enrichment

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Many times an addition problem is given to you in *horizontal form*, with the addends written from left to right. To estimate the sum, you don't have to rewrite the addition vertically in order to line up the decimal points. Just use place value to figure out which digits are most important. Here is an example.

$$3.11 + 0.4639 + 8.205$$

The most important digits are in the ones place.

$$3 + 0 + 8 = 11$$

The next group of important digits are in the tenths place.

1 tenth + 4 tenths + 2 tenths = 7 tenths

Add to make your estimate: 11 + 7 tenths \rightarrow about 11.7

Estimate each sum.

1.
$$7.44 + 0.2193$$

2.
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$$3. 0.4208 + 0.16$$

4.
$$0.52 + 0.1 + 0.308 + 0.0294$$

5.
$$10.2 + 0.519$$

6.
$$12.004 + 1.5 + 4.32 + 0.1009$$

7.
$$6.72 + 0.5037$$

8.
$$0.805 + 1.006 + 0.4 + 2.0305$$

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$$1.208 + 3.1 + 0.04 + 6.143 + 0.3075$$

10.
$$0.9005 + 5.03 + 7.108 + 0.004 + 10.7$$

This same method works when you need to estimate a sum of much greater numbers. Estimate each sum.

12.
$$6,048 + 2,137 + 509$$

14.
$$7,095 + 12,402 + 3,114 + 360$$

"Key Words and Catch Phrases" for Word Problems

Addition Words

- 1. Add
- 2. Altogether
- 3. Both
- 4. In all
- 5. Sum
- 6. Total

Subtraction Words

- 1. Difference
- 2. Fewer
- 3. How many more
- 4. How much more
- 5. Left
- 6. Less: Debra bought apples for \$3.20 and oranges for \$4.23. How much **less** did the apples cost?
- 7. Minus
- 8. Need to
- 9. Remains
- 10. Subtract
- 10. Words ending with "er"; higher, longer, faster, heavier, larger, shorter, slower, farther, etc. Example: Jean's apple weighs 100 grams, and Karen's apple weighs 80 grams. How much **heavier** is Jean's apple?

Multiplication Words

- 1. Times: Maria ran around the track 5 **times.** It took her 5 minutes to run around the track. How many minutes did she run?
- 2. Every: Kim buys 2 apples everyday. How many apples does she buy in a week?
- 3. At this rate: Ed reads 25 words per minute. **At this rate**, how many words does he read in one hour?

Division Words

1. Each: Ken has 75 pencils and 15 boxes. How many pencils should he pack in each box

Use the information from the tables below to answer problems 1-4.

Frankie's	Earning
Week	Amount
1	\$397.00
2	\$383.75
3	\$356.25
4 .	\$415.25

Frankie's Monthly Expenses

Rent	\$540.00
Groceries	\$150.00
Entertainment	\$ 95.00
Gasoline	\$ 55.00
Insurance	\$125.00

1. What are Frankie's total earning for the four weeks?
2. What are Frankie's total monthly expenses?
3. How much more did Frankie earn in Week 4 than in Week 2?
4. Does Frankie earn enough money to pay his monthly expenses? Explain how you found your answer.

Solve and show your work.

5. A recipe for granola uses 1/4 teaspoon of cinnamon. A recipe for muffins uses 3/8 teaspoon of cinnamon. Kathy doubles the recipe for the granola and triples the recipes for the muffins. How much cinnamon does she use in all?

On average a dairy course.	100 !!			
On average, a dairy cow produces	192 gallons	of milk a month	About how much	h mille
م النبير	9	a riioiteii.	Though How Hide	JU HIIIK
will a cow produce in a year?	0,	•	146	

The table below shows the number of bushels of wheat produced per year in four U.S. states.

Wheat Produced

Wilcat Todaced	
State	Number of Bushels
South Dakota	42,235,000
Idaho	87,660,000
Kentucky	18,020,000
Virginia	10,771,000

About how many bushels of wheat were produced by all	four states?	· · · · ·
using front-end estimation	-	
rounding to the greatest place	· · · · · · · · · · · · · · · · · · ·	
Which estimate is closer to the actual total? Explain.		
		•

Denny bought 18 bags of dog food and 11 bags of cat food for the animal shelter. Each bag of food weighs $10\frac{3}{4}$ lb. Estimate the total weight of all the bags.

The table below shows the number of active pilots for 3 different years. No pilots were active for more than one of the given years.

Pilot Certificates Held

Year	Number	
1970	720,028	
1990	702,659	
2001	622,274	

What is a reasonable estimate for the total number of active pilots for the years 1970, 1990, and 2001?



___Practice

Use the information from the tables below to answer problems 1-5.

Jack's Earnings

	Uack .	3 Laimings
	Week	Amount
	1	\$397.00
	2	\$383.75
,	3	\$356.25
	4	\$415.25

Jack's Monthly Expenses

Cack o mo	many Expended
rent	\$540.00
groceries	\$150.00
entertainment	\$95.00
gasoline	\$55.00
insurance	\$125.00

E02203							
1.	M/hat ara	lack's total	earnings for	the four	wooles?	. 6	
	vviiat are	lack's total	earrings for	title rour	MGGK2;	340	
		,	9				

2	What are Jack's total monthly expenses?	

100000		· Anna
3	How much more did	Jack earn in Week 4 than in Week 3?

Jack earns \$10.65 pe	er hour. Abo	ut how many	hours does Ja	ick work e	each week?	
,						
	*	300			<u> </u>	

If the earnings in the chart reflect Jack's average monthly earnings, about how much will Jack earn in a year?

Does Jack earn enough money to pay his monthly expenses? Explain how you found your answer.

4 100	1				gragita de la Salada de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Ca Caracteria de Caracteria d
6.	A recipe for granola uses $\frac{1}{4}$	teaspoon of cinnamor	i. A recipe for muffin	is uses $\frac{3}{8}$ teaspoons	on
	of cinnamon. Dee doubles t	The state of the s		ecipe for the mu	uffins.
	How much cinnamon does	she use in all? Show y	our work.		
		*			
09/12/58/8	9	Total			
7	A group of 6 friends earned	a total of \$432.60 sel	lling items at a yard	sale. They decid	led ,
	to divide the money equally	. How much money o	lid each person get?	Show your wor	k.
					٠
		•		. ,	
	4				
8	Roberto bought a turkey sar	ndwich for \$3.75, a ba	ag of chips for \$0.89	and a bottle o	f
8	Roberto bought a turkey sar water for \$1.29. He paid for				
8	water for \$1.29. He paid for				
8					
8	water for \$1.29. He paid for				
	water for \$1.29. He paid for	the food with a \$10			
	water for \$1.29. He paid for Show your work.	the food with a \$10 r problems 9-11.	bill. How much char	nge did he get b	
	water for \$1.29. He paid for Show your work.	r the food with a \$10 r problems 9~11. Amount of Beau	bill. How much char	nge did he get b	
	water for \$1.29. He paid for Show your work.	r the food with a \$10 r problems 9–11. Amount of Bear Type of Bean	bill. How much char	nge did he get b	
	water for \$1.29. He paid for Show your work.	r the food with a \$10 r problems 9–11. Amount of Bear Type of Bean Navy Bean	bill. How much char	nge did he get b	
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	water for \$1.29. He paid for Show your work.	r problems 9-11. Amount of Bear Type of Bean Navy Bean Lima Beans	bill. How much char	nge did he get b	
	water for \$1.29. He paid for Show your work.	r problems 9–11. Amount of Bear Type of Bean Navy Bean Lima Beans Pinto Beans	bill. How much char ns Needed for Soc Amount (cups) $1\frac{1}{4}$ $\frac{3}{4}$ $\frac{1}{2}$	nge did he get b	
	water for \$1.29. He paid for Show your work. the table below to answe	r problems 9–11. Amount of Bear Type of Bean Navy Bean Lima Beans Pinto Beans	bill. How much char ns Needed for Soc Amount (cups) $1\frac{1}{4}$ $\frac{3}{4}$ $\frac{1}{2}$	nge did he get b	
	water for \$1.29. He paid for Show your work. the table below to answe	r problems 9–11. Amount of Bear Type of Bean Navy Bean Lima Beans Pinto Beans	bill. How much char ns Needed for Soc Amount (cups) $1\frac{1}{4}$ $\frac{3}{4}$ $\frac{1}{2}$	nge did he get b	

Mr. Yang wants to make one-third of the recipe. How many of each kind of bean does he need?

Use the information below to answer problems 12–17.

Philip gets a weekly allowance of \$15. He also earns \$12 each weekend doing yard work. Each week he spends \$7.50 on video game rentals, \$9.50 going to the movies, and \$5 buying lunch at the mall.

Use the space below to plan and make a weekly budget for Philip.

- What are Philip's total weekly earnings?
 - A \$15.00
 - B \$25.00
 - C \$27.00
 - D \$22.00
- How much money does Philip have left over each week?
 - A \$4.00
 - B \$5.00
 - C \$12.00
 - D \$10.00

- What are his total weekly expenses?
 - F \$22.00
 - **G** \$27.00
 - H \$21.00
 - J \$23.00
- It rains one weekend and Phillip cannot do yard work. He still wants to go to the movies. What else can he do if he only has his allowance?
 - F He can rent video games.
 - **G** He can still do everything he usually does.
 - H He can only go to the movies.
 - J He can buy lunch at the mall.
- Philip wants to buy a digital camera that costs \$129.50. If he saved all of his leftover money each week, how many weeks would it take to save enough money for the camera? Show your work.