

Understand the Question

1. The Fly-A-Kite Store sold 487 kites one week and 512 kites the next week. How many kites did the store sell in all?

THINK: The question is asking

- a. how many more kites the store sold the second week.
- b. how many people bought kites.
- c. how many kites the store sold in all.

ANSWER: The store sold

_____ kites in all.

2. It takes 13 square feet of paper to make a dragon kite. How many square feet of paper does it take to make 3 of these kites?

THINK: The question is asking

- a. how much paper it takes to make 3 kites.
- b. how much paper it takes to make 1 kite.
- c. how much more paper it takes to make a dragon kite.

ANSWER: It takes

_____ square feet of paper to make 3 kites.

3. Last year Mr. Choudri sold 946 bat-wing kites. This year he sold 375 more than last year. How many bat-wing kites did he sell this year?

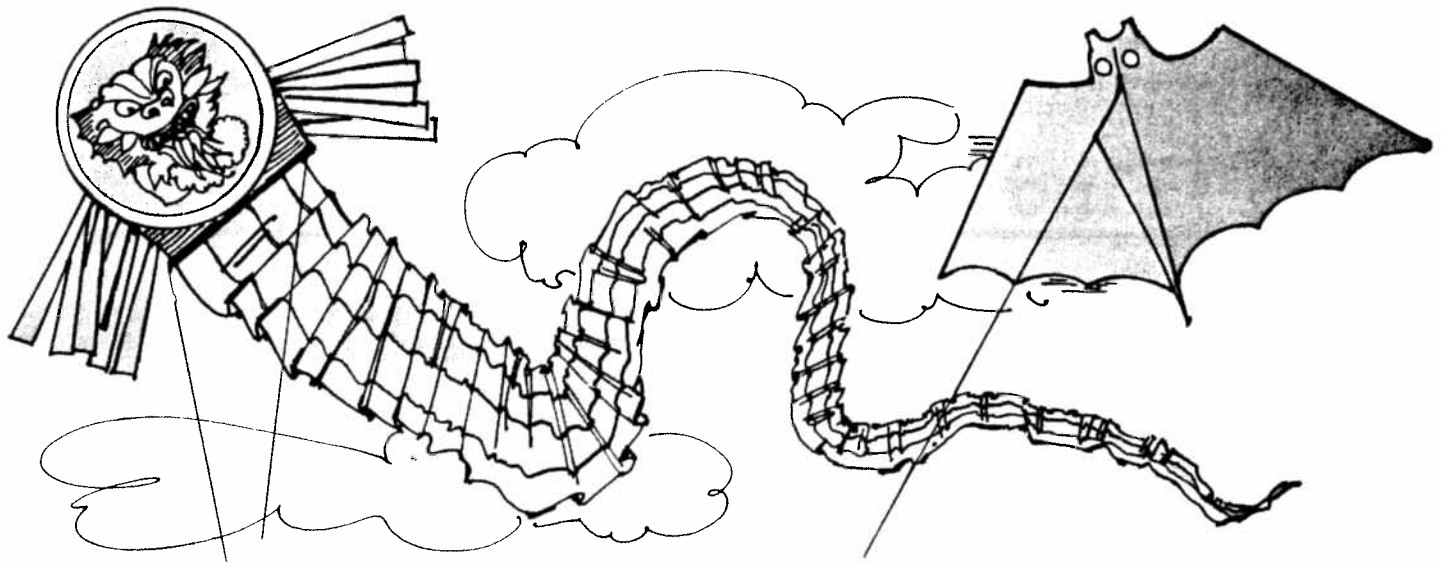
THINK: The question is asking

- a. how many bat-wing kites he sold this year.
- b. how many more bat-wing kites he sold this year than last year.
- c. how many bat-wing kites he sold last year.

ANSWER: He sold

_____ bat-wing kites this year.

	1	2	3	4	5	6	
THINK:							Number Right
ANSWER:							



4. Mr. Choudri used 55 yards of tape to trim 5 kites. He used the same amount on each kite. How many yards of tape did he use on each kite?

THINK: The question is asking

- a. how much tape he used in all.
- b. how much tape he used on each kite.
- c. how many more yards of tape he needed.

ANSWER: He used

_____ yards of
tape on each
kite.

5. Jamie's kite was 523 feet above the ground. Helen's kite was 617 feet above the ground. How much higher was Helen's kite than Jamie's?

THINK: The question is asking

- a. how high Helen's kite was.
- b. how high Jamie's kite was.
- c. how much higher Helen's kite was than Jamie's.

ANSWER: Helen's kite was

_____ feet higher
than Jamie's.

6. Cloth kites cost \$12. On Saturday morning Mr. Choudri sold 4 of them. How much money did he receive from the sale of the 4 kites?

THINK: The question is asking

- a. how much a cloth kite costs.
- b. how much 4 cloth kites cost.
- c. how much more a cloth kite costs than other kites.

ANSWER: Mr. Choudri

received _____.

Find the Information

1. The Big Wheels Bike Club went on a 45-mile trip. Riding at the same speed each hour, it took the riders 5 hours to complete the trip. How many miles did they travel each hour?

THINK: The problem tells you that

- a. the 45 members of the bike club traveled for 5 hours.
- b. the bike club rode 45 hours each week for 5 weeks.
- c. the bike club rode 45 miles in 5 hours.

ANSWER: They traveled

_____ miles each hour.

2. Last year 23 people went on a bike trip to Peach Lake. This year 19 more people went on the trip. How many people went on the trip this year?

THINK: The problem tells you that

- a. 19 people went on 23 bike trips.
- b. 23 people came this year, which was 19 more than last year.
- c. 23 people went last year and 19 more people went this year.

ANSWER: _____ people went on the trip this year.

3. There were 15 children on the bike trip. Each child carried a 3-pound pack. How many pounds did the packs weigh in all?

THINK: The problem tells you that

- a. 3 children shared 15 packs.
- b. 15 children each carried a 3-pound pack.
- c. 3 children each carried 15-pound packs.

ANSWER: The packs weighed

_____ pounds in all.

	1	2	3	4	5	6	
THINK:							Number Right
ANSWER:							

4. Mr. Snyder, the trip leader, rode his bike 343 miles in July. In August he rode it 425 miles. How many more miles did he ride his bike in August than in July?

THINK: The problem tells you that

- he rode 343 miles more in July than the 425 miles he rode in August.
- he rode 425 miles for each of two months.
- he rode 425 miles in August and 343 miles in July.

ANSWER: He rode _____ more miles.

5. Each adult paid \$5 to go on the trip. There were 27 adults. How much money did the adults pay in all?

THINK: The problem tells you that

- there were 27 adults that each paid \$5.
- 27 adults paid less than \$5 each.
- a total of \$27 was paid by 5 adults.

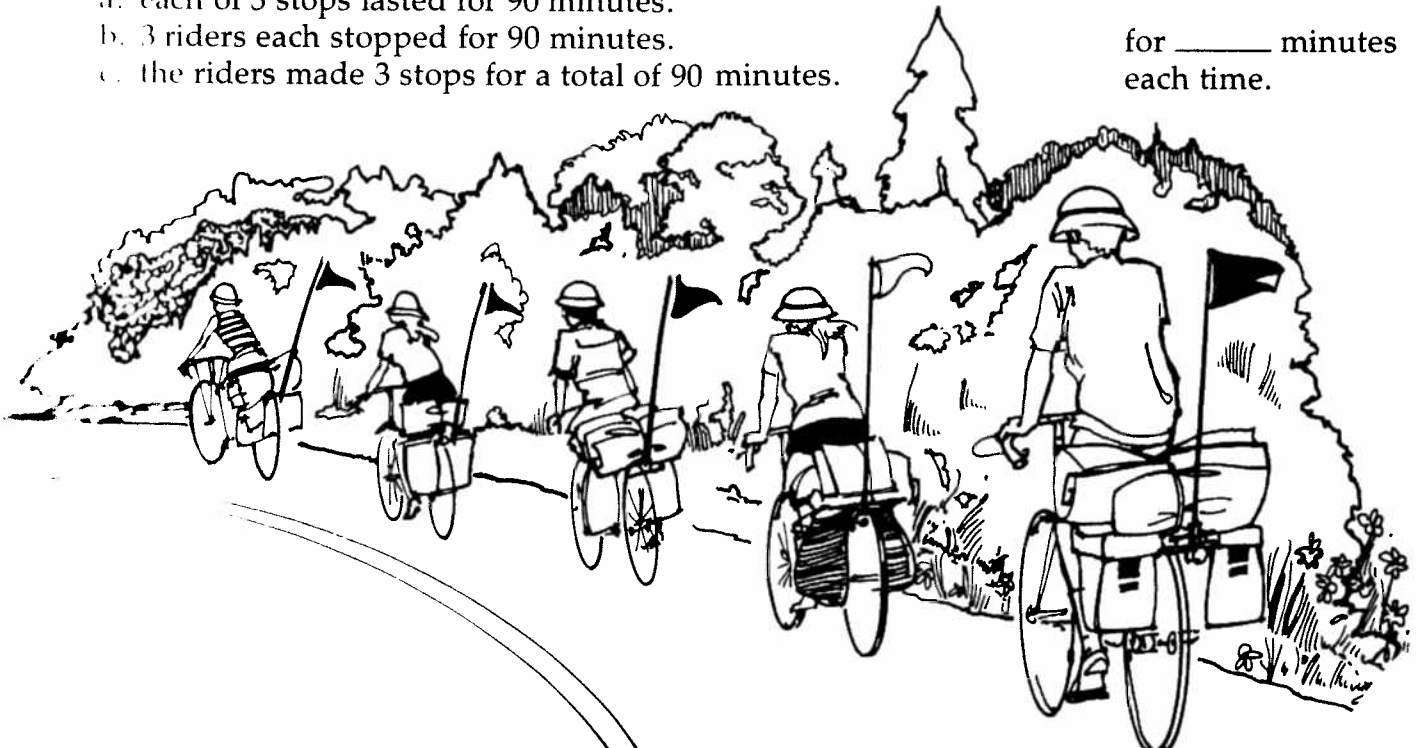
ANSWER: The adults paid _____ in all.

6. The riders made 3 rest stops for a total of 90 minutes. Each stop lasted for the same amount of time. For how long did the riders stop each time?

THINK: The problem tells you that

- each of 3 stops lasted for 90 minutes.
- 3 riders each stopped for 90 minutes.
- the riders made 3 stops for a total of 90 minutes.

ANSWER: The riders stopped for _____ minutes each time.



Choose the Correct Operation

1. A single engine plane can fly 283 kilometers per hour. A plane with two engines can fly 428 kilometers per hour. How much faster can the plane with two engines fly?

THINK: To solve this problem you should

- a. add.
- b. subtract.
- c. multiply.

ANSWER: It can fly

_____ kilometers
per hour faster.

2. There are 8 jets lined up on the runway. Each one is carrying 490 passengers. How many passengers are on the jets in all?

THINK: To solve this problem you should

- a. multiply.
- b. divide.
- c. subtract.

ANSWER: _____ passengers
are on the jets in all.

3. The Comet, the first jet airliner, could fly 800 kilometers per hour. This was 220 kilometers per hour faster than a DC-7. How fast could a DC-7 fly?

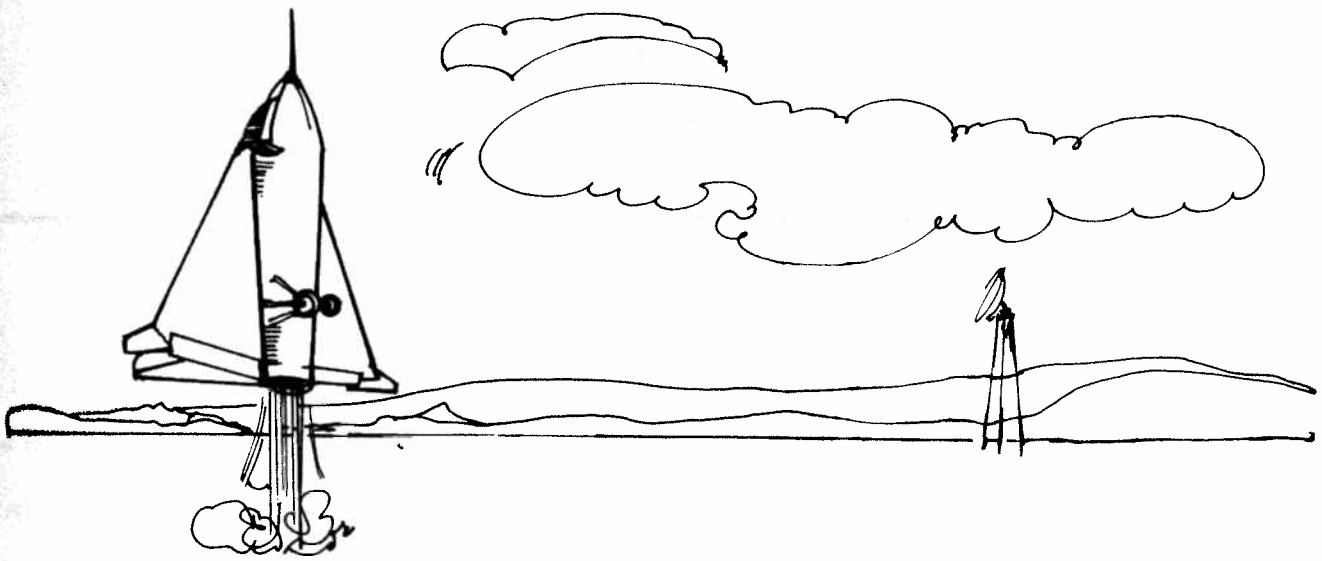
THINK: To solve this problem you should

- a. add.
- b. divide.
- c. subtract.

ANSWER: A DC-7 could fly

_____ kilometers
per hour.

	1	2	3	4	5	6	
THINK:							Number Right
ANSWER:							



4. A VTOL plane needs only 150 meters of runway for a landing. Regular airplanes need a runway 10 times as long. How long a runway does a regular airplane need for landing?

THINK: To solve this problem you should

- divide.
- multiply.
- subtract.

ANSWER: A regular airplane
needs _____ meters
of runway.

5. Orville Wright flew the first engine-driven airplane a distance of 37 meters. That same day his brother Wilbur flew it 260 meters. What was the total number of meters they flew the plane that day?

THINK: To solve this problem you should

- subtract.
- multiply.
- add.

ANSWER: They flew the
plane a total of
_____ meters
that day.

6. The Flying Lions Company has a total of 486 tons of cargo to load on to 6 planes. If the same amount of cargo is loaded on to each plane, how many tons will each plane carry?

THINK: To solve this problem you should

- divide.
- subtract.
- multiply.

ANSWER: Each plane will carry
_____ tons.

LESSON
4

Estimate



When you do not need an exact answer, **estimate** to solve a word problem. To estimate, round the facts.

1. Kevin and his family traveled 23 miles by canoe on Monday. On Tuesday they traveled 39 miles, and on Wednesday they traveled 28 miles. About how many miles did they travel in all?

THINK: Which numbers should you use to estimate the answer?

- a. 20, 50, and 30
- b. 20, 30, and 10
- c. 20, 40, and 30

ANSWER: They traveled about _____ miles in all.

2. The family loaded 204 pounds of gear in the first canoe. They loaded 28 pounds less in the second canoe. About how many pounds of gear did they load in the second canoe?

THINK: Which numbers should you use to estimate the answer?

- a. 200 and 30
- b. 200 and 40
- c. 300 and 30

ANSWER: They loaded about _____ pounds of gear in the second canoe.

3. Mr. Bock spent \$209 on supplies that will last for 5 days. About what was the average cost of supplies for each day?

THINK: Which numbers should you use to estimate the answer?

- a. 300 and 5
- b. 200 and 5
- c. 100 and 5

ANSWER: The average cost of supplies for each day was about _____.

	1	2	3	4	5	6	
THINK:							Number Right
ANSWER:							

4. The Bock family rented two canoes. The total cost was \$33 a day. About how much did it cost to rent the canoes for 5 days?

THINK: Which numbers should you use to estimate the answer?

- a. 5 and 30
- b. 5 and 40
- c. 3 and 30

ANSWER: It cost about _____ to rent the canoes for 5 days.

-
5. On another 5-day canoe trip, the family traveled 153 miles. About what was the average number of miles they traveled each day?

THINK: Which numbers should you use to estimate the answer?

- a. 250 and 5
- b. 150 and 5
- c. 200 and 5

ANSWER: They traveled about _____ miles each day.

-
6. Last year 4702 people canoed on the Silver River. This year 578 fewer people canoed on the river. About how many people canoed on the Silver River this year?

THINK: Which numbers should you use to estimate the answer?

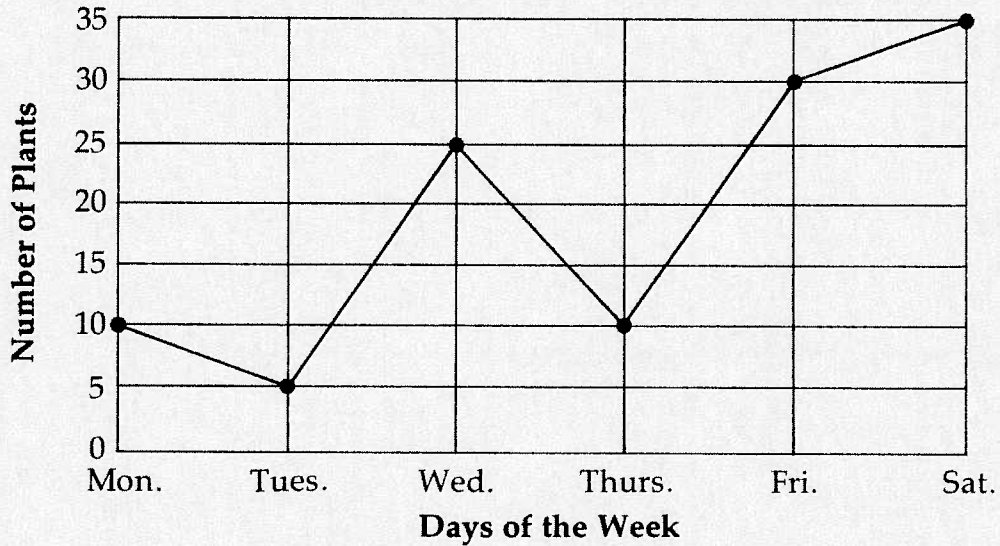
- a. 4700 and 700
- b. 4800 and 500
- c. 4700 and 600

ANSWER: About _____ people canoed on the Silver River this year.



Read and Use a Line Graph

Number of Plants Sold by Hillcrest Nursery
During the Week of June 8-13



1. On which day were the most plants bought?

THINK: You should look for
 a. the highest point on the graph.
 b. the lowest point on the graph.
 c. the middle point on the graph.

ANSWER: The most plants were bought on _____.

2. On which day were 25 plants bought?

THINK: You should look for
 a. the point that stands for 5 plants.
 b. the point that stands for 15 plants.
 c. the point that stands for 25 plants.

ANSWER: 25 plants were bought on _____.

	1	2	3	4	5	6	Number Right
THINK:							
ANSWER:							

3. On how many days were the same number of plants sold?

THINK: You should look for

- the number of points that stand for the same number.
- the number of points that are above 10.
- the number of points that are less than 10.

ANSWER: The same number of plants were sold on _____ days.

4. How many fewer plants were bought on Wednesday than on Saturday?

THINK: You should look for

- the number of plants bought on Saturday and Wednesday.
- the number of plants bought on Saturday and Tuesday.
- the number of plants bought on Wednesday and Friday.

ANSWER: _____ fewer plants were bought on Wednesday.

5. How many plants in all were bought on Tuesday, Thursday, and Friday?

THINK: You should look for

- the number of plants bought on Tuesday, Wednesday, and Friday.
- the number of plants bought on Thursday, Friday, and Monday.
- the number of plants bought on Friday, Thursday, and Tuesday.

ANSWER: _____ plants were bought on Tuesday, Thursday, and Friday.

6. Each plant sold for \$8. How much money did the store make from plant sales on Friday?

THINK: You should look for

- the day on which 8 plants were sold.
- the number of plants sold on Friday.
- the number of people buying plants on Friday.

ANSWER: The store received _____ from plant sales on Friday.

LESSON
6

Find the Missing Information



If necessary facts are missing, word problems cannot be solved.

1. Last year 342 rodeos were held all over the country. How many more rodeos were held this year than last year?

Use the information you chose to compute the answer.

THINK: Choose the information that is needed to solve the problem.

ANSWER: _____ more rodeos were held this year.

- For 5 years there has been an increase in the number of rodeos.
- This year 123 rodeos were held in towns west of Chicago.
- This year 370 rodeos were held all over the country.

2. There were 342 tickets sold for the Friday night rodeo. How much money did the ticket seller collect for Friday night's show?

THINK: Choose the information that is needed to solve the problem.

ANSWER: She collected _____.

- On Saturday 157 more people came to the rodeo.
- The ticket seller worked 8 hours.
- Each ticket cost \$5.

3. John Tallcloud has been riding in rodeos for the last 17 years. How old is he now?

THINK: Choose the information that is needed to solve the problem.

ANSWER: He is _____ years old.

- He has ridden in 12 rodeos each year.
- He has been riding in rodeos since he was 16 years old.
- He plans to ride for 14 more years.

	1	2	3	4	5	6	
THINK:							Number Right
ANSWER:							

4. John won a total of \$963 one year. He won the same amount of money in each event. How much did he win in each event?

THINK: Choose the information that is needed to solve the problem.

- a. He has been a rodeo rider for 6 years.
- b. He won \$163 more than Bill Brown.
- c. He won 3 rodeo events that year.

ANSWER: He won _____ in each event.

5. John's trailer was carrying a 2076-pound bull, a horse, and 525 pounds of riding equipment. What was the total weight of the animals and the equipment?

THINK: Choose the information that is needed to solve the problem.

- a. His trailer can carry 9000 pounds.
- b. His horse weighs 936 pounds.
- c. His saddle weighs 84 pounds.

ANSWER: The total weight of the animals and the equipment was _____ pounds.

6. The next rodeo John will attend is in a town 306 miles away. How fast will John be going if he travels the same number of miles each hour?

THINK: Choose the information that is needed to solve the problem.

- a. He will drive for 6 hours.
- b. The speed limit is 55 miles an hour.
- c. He will rest 10 hours before the next rodeo.

ANSWER: He will be going _____ miles per hour.



Choose the Correct Number Sentence

1. Carla spent \$5.25 on paper plates. She spent \$4.30 on paper cups. How much did she spend in all?

THINK: Which number sentence fits the problem?

- a. $\$5.25 - \$4.30 = \square$
 b. $\$5.25 + \$4.30 = \square$
 c. $\$4.30 - \$5.25 = \square$

ANSWER: She spent _____
in all.

2. Rob spent \$14.45 for ham and chicken. He spent \$5.00 for bread. How much more did the ham and chicken cost than the bread?

THINK: Which number sentence fits the problem?

- a. $\$14.45 - \$5.00 = \square$
 b. $\$5.00 - \$14.45 = \square$
 c. $\$14.45 + \$5.00 = \square$

ANSWER: The ham and
chicken cost _____
more.

3. Marcy had \$7.55. She spent \$6.35 on apple juice. How much money did she have left?

THINK: Which number sentence fits the problem?

- a. $\$6.35 - \$7.55 = \square$
 b. $\square - \$6.35 = \7.55
 c. $\$7.55 - \$6.35 = \square$

ANSWER: She had _____ left.

	1	2	3	4	5	6	Number Right
THINK:							
ANSWER:							

4. Luis spent \$5.43 for apples. He spent \$4.15 for plums. How much did he spend all together?

THINK: Which number sentence fits the problem?

- a. $\$5.43 + \$4.15 = \square$
- b. $\$4.15 + \square = \5.43
- c. $\$5.43 - \$4.15 = \square$

ANSWER: He spent _____ all together.

5. Nita spent \$0.61 on a container of salt. She gave the clerk \$0.75. How much change did she receive?

THINK: Which number sentence fits the problem?

- a. $\$0.61 - \$0.75 = \square$
- b. $\$0.75 + \$0.61 = \square$
- c. $\$0.75 - \$0.61 = \square$

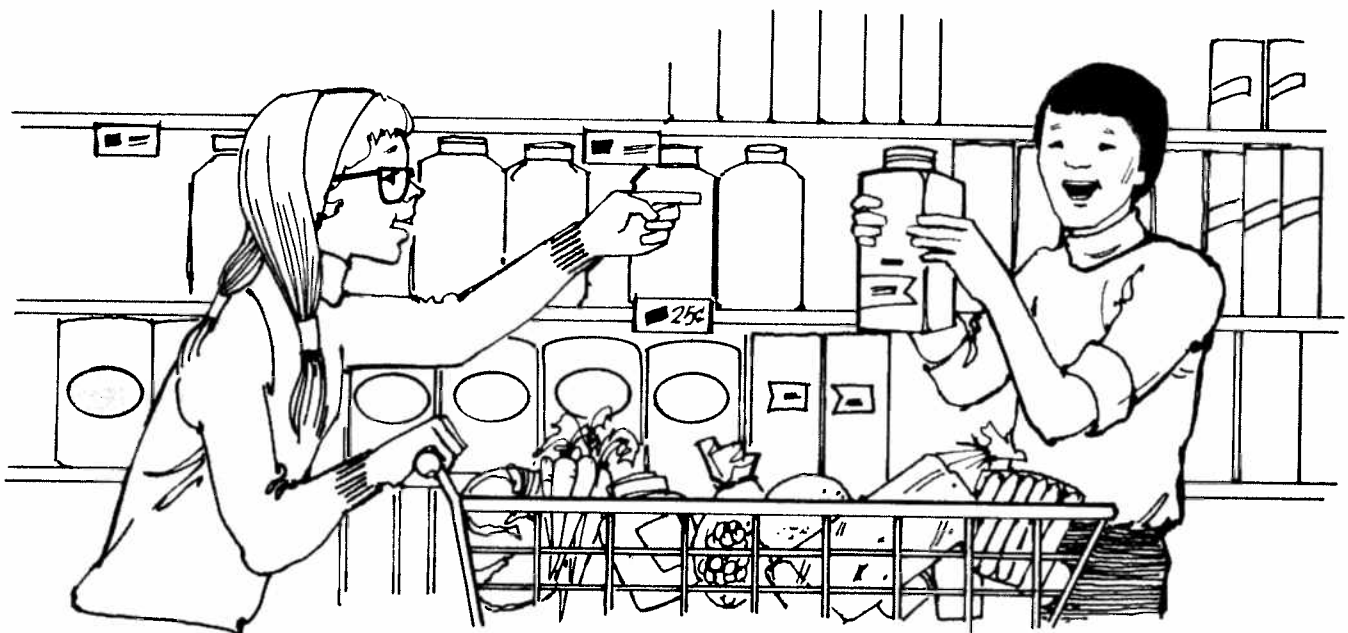
ANSWER: She received _____ in change.

6. The total cost of the class picnic was \$45.54. The class collected \$34.24. How much more do they need to collect to pay for the picnic?

THINK: Which number sentence fits the problem?

- a. $\$45.54 + \$34.24 = \square$
- b. $\$45.54 - \$34.24 = \square$
- c. $\square - \$34.24 = \45.54

ANSWER: They need _____ more to pay for the picnic.



Identify Extra Information

1. The number of calories a young child needs each day is about 106 times his or her weight in kilograms. Sally weighs 9 kilograms and her brother weighs 14 kilograms. How many calories does Sally need?

THINK: Which information is not needed for solving the problem?

- a. the weight of Sally's brother
- b. Sally's weight
- c. the number of calories per kilogram of weight

ANSWER: She needs _____ calories.

2. There are 360 calories in 4 cups of low-fat milk. Each cup of whole milk has 150 calories. How many calories are there in each cup of low-fat milk?

THINK: Which information is not needed for solving the problem?

- a. the number of cups of low-fat milk
- b. the total number of calories in the low-fat milk
- c. the number of calories in a cup of whole milk

ANSWER: There are _____ calories in each cup of low-fat milk.

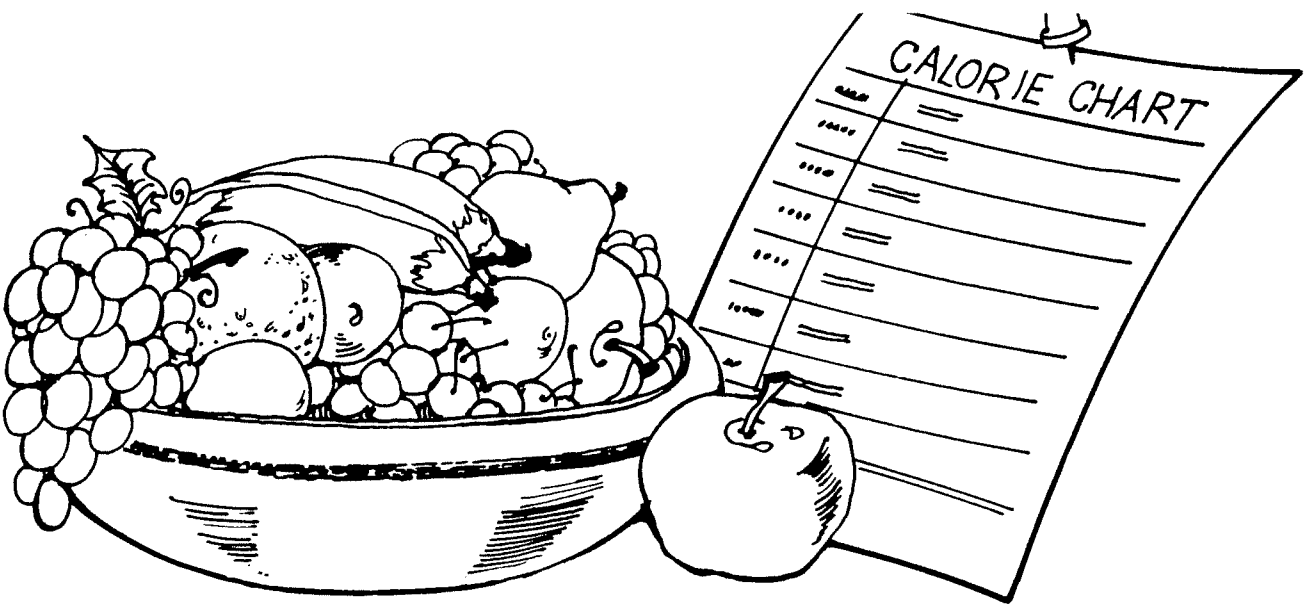
3. A 16-year-old boy needs 3600 calories a day. A 65-year-old man needs 2500 calories a day. A 10-year-old boy needs 2300 calories a day. How many more calories does the 16-year-old need than the 10-year-old?

THINK: Which information is not needed for solving the problem?

- a. the number of calories needed by the 10-year-old
- b. the number of calories needed by the 65-year-old
- c. the number of calories needed by the 16-year-old

ANSWER: The 16-year-old needs _____ more calories.

	1	2	3	4	5	6	
THINK:							Number Right
ANSWER:							



4. The foods Suzy ate on Monday had 2047 calories. The foods she ate on Tuesday had 2103 calories, and the ones she ate on Wednesday had 1847. How many calories in all were in the foods she ate on Monday and Wednesday?

THINK: Which information is not needed for solving the problem?

- a. the number of calories in the foods she ate on Tuesday
- b. the number of calories in the foods she ate on Wednesday
- c. the number of calories in the foods she ate on Monday

ANSWER: There were

_____ calories in the foods she ate on Monday and Wednesday.

5. A large apple has 117 calories. A banana has 59 more calories than an apple. An orange has 49 fewer calories than an apple. How many calories does an orange have?

THINK: Which information is not needed for solving the problem?

- a. the number of calories in the apple
- b. the number of calories in the banana
- c. the number of calories in the orange

ANSWER: An orange has

_____ calories.

6. A boiled egg has 77 calories. The 4 people in Norman's family ate boiled eggs for breakfast. Each person had 3 eggs. How many calories did each person eat?

THINK: Which information is not needed for solving the problem?

- a. the number of calories in a boiled egg
- b. the number of eggs each person ate
- c. the number of people who ate eggs

ANSWER: Each person ate

_____ calories.

Choose the Correct Operation

1. Mr. Gonzalez spent a total of \$400 for computer games for his store. He bought 5 games that all cost the same amount. How much did each game cost?

THINK: To solve the problem you should

- a. multiply.
- b. divide.
- c. add.

ANSWER: Each game cost _____.

2. Penny scored 1784 points in a game of Space Probe. Ray scored 1802 points. How many more points did Ray score?

THINK: To solve the problem you should

- a. add.
- b. multiply.
- c. subtract.

ANSWER: He scored _____ more points.

3. Nick spent 48 minutes playing the computer Road Race game. It took exactly 4 minutes for his car to circle the track. How many circles did his car make?

THINK: To solve the problem you should

- a. divide.
- b. multiply.
- c. subtract.

ANSWER: His car made _____ circles.

	1	2	3	4	5	6	
THINK:							Number Right
ANSWER:							

4. Sy was able to hit the enemy ship 16 times. Each hit was worth 10 points. How many points did he score in all?

THINK: To solve this problem you should

- a. add.
- b. subtract.
- c. multiply.

ANSWER: He scored _____ points in all.

5. Tina scored 705 points playing Target. Then she scored 849 points and 506 points. How many points did she score in all?

THINK: To solve this problem you should

- a. subtract.
- b. multiply.
- c. add.

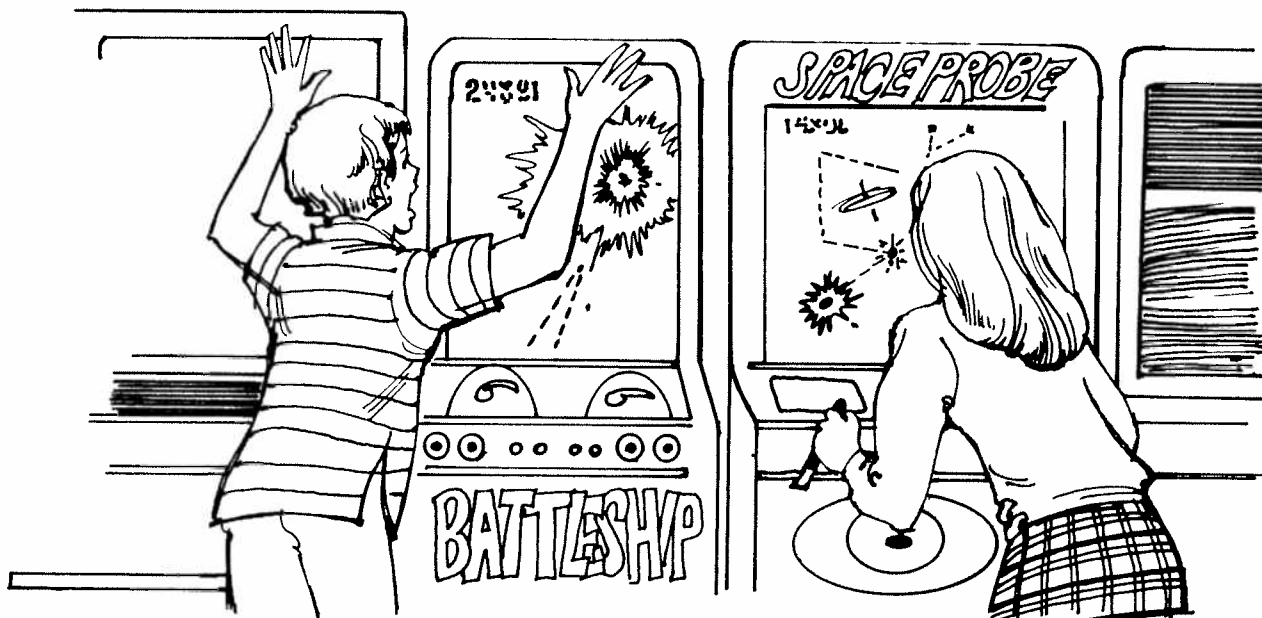
ANSWER: She scored _____ points in all.

6. Rona scored 50 points each time she hit a battleship. She hit 15 battleships in all. How many points did she score in all?

THINK: To solve this problem you should

- a. multiply.
- b. divide.
- c. subtract.

ANSWER: She scored _____ points in all.



LESSON
10

Solve Two-Step Problems



To solve a two-step problem, you use two facts to get a new fact. Use the new fact to help you answer the question in the problem.

1. Mrs. Jonas makes 25 paper flowers each day. Mr. Wiggins makes 30. The flowers are then grouped into bunches of 5 each by Mr. Lopez. How many bunches of flowers can Mr. Lopez make?

THINK: To find the answer you should

- add then divide.
- multiply then subtract.
- divide then subtract.

ANSWER: He can make

_____ bunches of flowers.

2. Ms. Primo put 7 gallons of green paint and 9 gallons of blue paint in a box. If the box can hold 18 gallons of paint, how many more gallons can she pack in the box?

THINK: To find the answer you should

- multiply then add.
- add then subtract.
- subtract then add.

ANSWER: She can pack _____ more gallons in the box.

3. Mr. Levy has 9 boxes of scissors on the shelf. Each box contains 8 scissors. He has an order to ship 100 scissors. How many more scissors does he need?

THINK: To find the answer you should

- add then subtract.
- subtract then divide.
- multiply then subtract.

ANSWER: He needs _____ more scissors.

	1	2	3	4	5	6	
THINK:							Number Right
ANSWER:							

4. A hand truck is loaded with 43 packages of blue paper and 28 packages of yellow paper. Each package weighs 3 pounds. How much do the packages weigh all together?

THINK: To find the answer you should

- add then divide.
- subtract then multiply.
- add then multiply.

ANSWER: The packages weigh _____ pounds all together.

5. Mr. Fry packed 15 boxes of crayons. Each box contained 8 crayons. Mrs. Dunn packed 96 crayons in all. How many more crayons did Mr. Fry pack than Mrs. Dunn?

THINK: To find the answer you should

- subtract then divide.
- add then multiply.
- multiply then subtract.

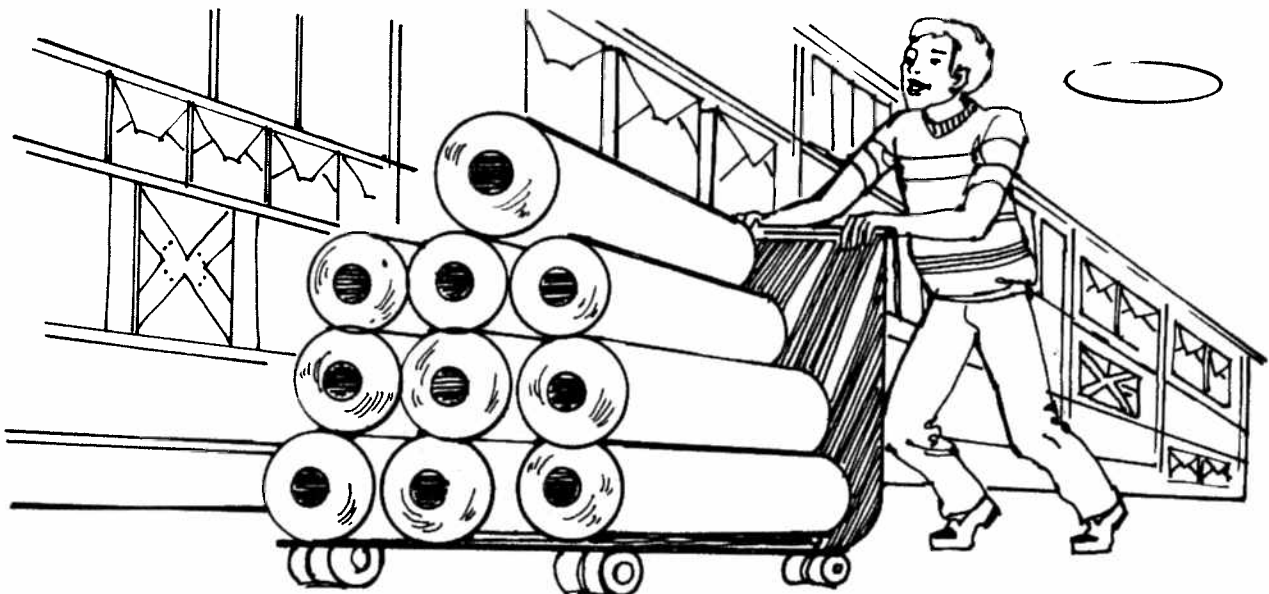
ANSWER: He packed _____ more crayons.

6. Mrs. Jones works a total of 20 hours a week. She works the same number of hours each day for 4 days. She earns \$4 an hour. How much does she earn each day?

THINK: To find the answer you should

- add then multiply.
- divide then multiply.
- multiply then multiply.

ANSWER: She earns _____ each day.



Read and Use a Table

Batting Champions

Year	Player	Club	Batting Average
1919	Ty Cobb	Detroit	.384
1924	Babe Ruth	New York	.378
1939	Joe DiMaggio	New York	.381
1954	Roberto Avila	Cleveland	.341
1968	Carl Yastrzemski	Boston	.301
1975	Rod Carew	Minnesota	.359
1979	Fred Lynn	Boston	.333

1. Ty Cobb has the highest batting average listed in the table. For which club did Ty Cobb play?

THINK: You should look for

- the year in which Cobb had a .384 batting average.
- the name of the club listed for Ty Cobb.
- the lowest batting average listed.

ANSWER: Ty Cobb played for _____.

2. Joe DiMaggio's batting average is closest to Ty Cobb's. In what year did DiMaggio have a batting average of .381?

THINK: You should look for

- the name of DiMaggio's club.
- the year DiMaggio batted .381.
- the year Cobb batted .381.

ANSWER: DiMaggio had a batting average of _____.

.381 in _____.

	1	2	3	4	5	6	Number Right
THINK:							
ANSWER:							

3. How much higher is Joe DiMaggio's average than Rod Carew's average?

THINK: You should look for

- DiMaggio's and Carew's batting averages.
- a batting average higher than .381.
- the batting averages of all New York players.

ANSWER: DiMaggio's average
is _____ higher.

4. In 1963 Carl Yastrzemski's batting average was .020 higher than it was in 1968. What was Yastrzemski's average in 1963?

THINK: You should look for

- Yastrzemski's highest batting average.
- Yastrzemski's lowest batting average.
- Yastrzemski's batting average in 1968.

ANSWER: His average in 1963
was _____.

5. How much lower is Roberto Avila's batting average than Ty Cobb's average?

THINK: You should look for

- the batting average for the first and last years.
- the highest and lowest batting averages.
- Avila's and Cobb's batting averages.

ANSWER: Avila's average is
_____ lower.

6. In 1974 Rod Carew had a batting average .005 higher than in 1975. What was his batting average in 1974?

THINK: You should look for

- the batting averages higher than .359.
- Carew's batting average in 1975.
- Carew's batting average in 1974.

ANSWER: His batting average
in 1974 was _____.

LESSON
12

Find the Missing Information

1. Detective Bates counted \$3.46 left in Judy's piggy bank. How much money was missing?

Use the information you chose to compute the answer.

THINK: Choose the information that is needed to solve the problem.

ANSWER: _____ was missing.

- a. Detective Bates charges \$15.00 an hour.
- b. It had taken Judy 6 months to save the money.
- c. The piggy bank had contained \$19.27.

2. Detective Bates found \$10.01 under the rug, \$2.47 behind a chair, and the rest in a flower pot. How much did he find in all?

THINK: Choose the information that is needed to solve the problem.

ANSWER: He found _____ in all.

- a. He looked for 9 minutes.
- b. He looked in 46 flower pots.
- c. He found \$3.33 in a flower pot.

3. Detective Bates told Judy that a new piggy bank with a lock would cost \$2.96 more than her old piggy bank. How much would the new one cost?

THINK: Choose the information that is needed to solve the problem.

ANSWER: The new one would cost _____.

- a. The old bank cost \$4.29.
- b. Judy bought the old bank 3 years ago.
- c. Locks cost \$1.79 if bought separately.

	1	2	3	4	5	6	Number Right
THINK:							
ANSWER:							

4. To pay for a new bank, Judy babysat for \$1.50 an hour. How much money did she earn in all?

THINK: Choose the information that is needed to solve the problem.

- a. She babysat for 6 hours in all.
- b. She babysat for 3 children.
- c. She was 13 years old.

ANSWER: She earned _____ in all.

5. Judy agreed to pay Detective Bates her allowance for 4 weeks. How much did she pay him in all?

THINK: Choose the information that is needed to solve the problem.

- a. She spent \$1.50 a week for buses.
- b. She received \$3 a week as an allowance.
- c. She saved \$0.75 a week.

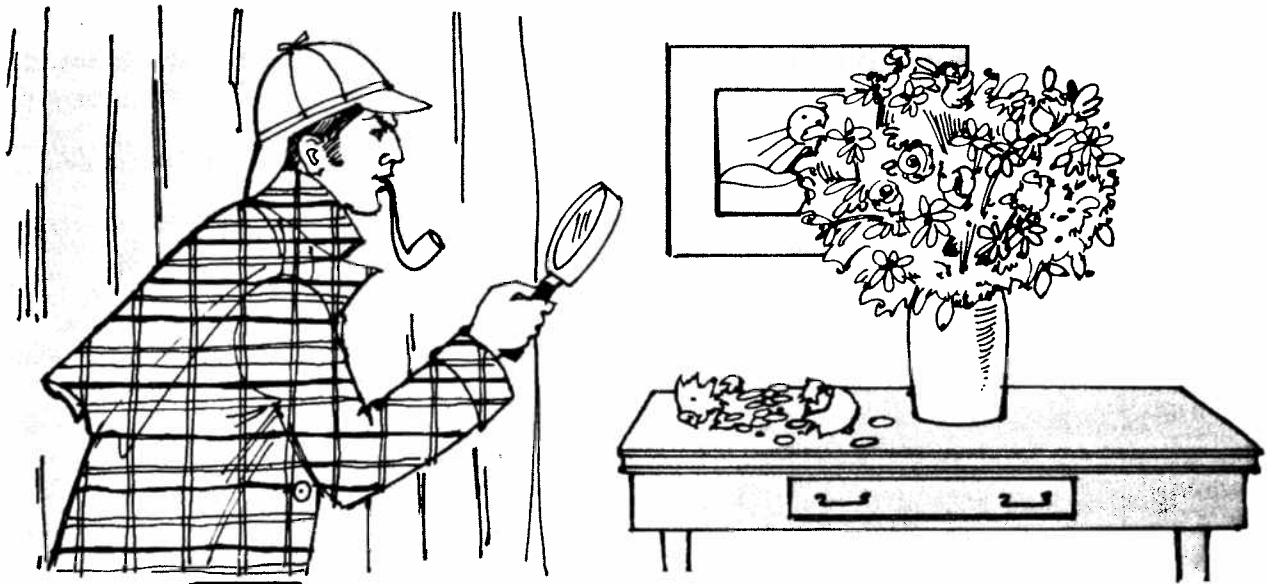
ANSWER: She paid him _____ in all.

6. Detective Bates pays his helper, Mr. Biggs, \$4.10 an hour. How much does Mr. Biggs earn in a day?

THINK: Choose the information that is needed to solve the problem.

- a. Mr. Biggs has worked for 19 years.
- b. Mr. Biggs works 4 hours a day.
- c. Mr. Biggs begins work at 9 A.M.

ANSWER: He earns _____ in a day.



Choose the Correct Number Sentence

1. Maria added $\frac{1}{3}$ of a cup of water to some salt and flour to make clay. The dough was too stiff, so she added another $\frac{1}{3}$ of a cup of water. How much water did she add in all?

THINK: Which number sentence fits the problem?

- a. $\frac{1}{3} - \frac{1}{3} = \square$
- b. $\frac{1}{3} + \square = \frac{1}{3}$
- c. $\frac{1}{3} + \frac{1}{3} = \square$

ANSWER: She added _____ of a cup of water in all.

2. Maria used $2\frac{1}{4}$ cups of salt and $1\frac{2}{4}$ cups of flour to make more clay. How many cups of salt and flour did she add in all?

THINK: Which number sentence fits the problem?

- a. $1\frac{2}{4} + \square = 2\frac{1}{4}$
- b. $2\frac{1}{4} - 1\frac{2}{4} = \square$
- c. $1\frac{2}{4} + 2\frac{1}{4} = \square$

ANSWER: She used _____ cups of salt and flour.

3. Maria painted $\frac{5}{9}$ of her clay beads red. She painted $\frac{2}{9}$ of them green. What fraction of the beads did she paint in all?

THINK: Which number sentence fits the problem?

- a. $\frac{5}{9} + \frac{2}{9} = \square$
- b. $\frac{5}{9} - \frac{2}{9} = \square$
- c. $\frac{2}{9} - \frac{5}{9} = \square$

ANSWER: She painted _____ of the beads in all.

	1	2	3	4	5	6	
THINK:							Number Right
ANSWER:							

4. Maria had a piece of cord $17\frac{5}{8}$ inches long. She cut a piece $13\frac{2}{8}$ inches long for a necklace. How much cord did she have left?

Q14. Which number sentence fits the problem?

a. $13\frac{2}{8} - 17\frac{5}{8} = \square$

b. $13\frac{2}{8} + 17\frac{5}{8} = \square$

c. $17\frac{5}{8} - 13\frac{2}{8} = \square$

ANSWER: She had

_____ inches of cord left.

5. It takes Maria $\frac{1}{6}$ of an hour to make enough beads for a ring. It takes her $\frac{4}{6}$ of an hour to make enough beads for a necklace. How long does it take her to make the beads for both pieces of jewelry?

Q15. Which number sentence fits the problem?

a. $\frac{4}{6} - \frac{1}{6} = \square$

b. $\frac{4}{6} + \frac{1}{6} = \square$

c. $\frac{1}{6} - \square = \frac{4}{6}$

ANSWER: It takes her _____ of an hour to make beads for both pieces of jewelry.

6. Maria had $24\frac{7}{8}$ inches of wire. She used $5\frac{2}{8}$ inches to make a ring. How much wire did she have left?

Q16. Which number sentence fits the problem?

a. $24\frac{7}{8} - 5\frac{2}{8} = \square$

b. $5\frac{2}{8} - 24\frac{7}{8} = \square$

c. $\square - 24\frac{7}{8} = 5\frac{2}{8}$

ANSWER: She had

_____ inches of wire left over.



Identify Extra Information

1. Robinson Crusoe had $17\frac{5}{8}$ yards of cloth left from the ship's sail. He used $9\frac{1}{8}$ yards to make a tent and $3\frac{4}{8}$ yards to make a chair. How many yards of cloth did he use all together?

THINK: Which information is not needed for solving the problem?

ANSWER: He used

- a. the number of yards of cloth he used to make a chair
- b. the number of yards of cloth from the ship
- c. the number of yards of cloth he used to make a tent

_____ yards of cloth all together.

2. Robinson used $\frac{5}{8}$ of a goat skin that was 64 inches long to make some pants. He used $\frac{2}{8}$ of it to make a hat. What fraction of the skin did he use to make his pants and hat?

THINK: Which information is not needed for solving the problem?

ANSWER: He used _____ of the goat skin.

- a. the length of the skin
- b. the fraction of the skin he used to make a hat
- c. the fraction of the skin he used to make pants

3. Robinson poured $7\frac{3}{4}$ cups of water into a 4-gallon jug. During the day he drank $4\frac{2}{4}$ cups of water. How much water did he have left in the jug?

THINK: Which information is not needed for solving the problem?

ANSWER: He had

- a. the number of gallons of water that would fit in the jug
- b. the number of cups he drank
- c. the number of cups he poured into the jug

_____ cups of water left in the jug.

	1	2	3	4	5	6	
THINK:							Number Right
ANSWER:							

4. One day Robinson spent $4\frac{1}{6}$ hours hunting, $2\frac{2}{6}$ hours preparing food, and $8\frac{1}{6}$ hours in his garden. How much longer did he spend working in his garden than hunting?

THINK: Which information is not needed for solving the problem?

- the number of hours he spent in the garden
- the number of hours he spent preparing food
- the number of hours he spent hunting

ANSWER: He spent _____ more hours in his garden than hunting.

-
5. Robinson's bean plants grew $2\frac{1}{8}$ inches during the first week and $3\frac{3}{8}$ inches during the second week. There was $\frac{1}{2}$ inch of rain during the second week. How much did the plants grow during the two weeks?

THINK: Which information is not needed for solving the problem?

- the number of inches of rain that fell
- the number of inches of growth during the first week
- the number of inches of growth during the second week

ANSWER: They grew _____ inches during the two weeks.

-
6. Robinson cut up a 10-inch wheel of goat cheese. One day he ate $\frac{3}{12}$ of the cheese. The next day he ate $\frac{4}{12}$ of the cheese. What fraction of the cheese did he eat in all?

THINK: Which information is not needed for solving the problem?

- how much cheese he ate the first day
- the size of the wheel of cheese
- how much cheese he ate the next day

ANSWER: He ate _____ of the cheese in all.



Estimate



When you do not need an exact answer, **estimate** to solve a word problem. To estimate, round the facts.

1. Mr. Ward rented a truck for \$23.74 an hour. He also rented a hand truck that cost \$3.05 an hour. About how much did he pay in all each hour to rent these items?

THINK: Which numbers should you use to estimate the answer?

- a. \$20 and \$1
- b. \$20 and \$3
- c. \$30 and \$3

ANSWER: He paid about _____ each hour.

2. Mrs. Ward bought a new couch for \$790.45, a rug for \$564.85, and a chair for \$229.60. About how much did she spend in all?

THINK: Which numbers should you use to estimate the answer?

- a. \$800, \$600, and \$300
- b. \$700, \$400, and \$200
- c. \$800, \$600, and \$200

ANSWER: She spent about _____ in all.

3. Jenny had \$74.65 in her bank. She decided to buy a new bedspread for \$13.20. About how much money did she have left?

THINK: Which numbers should you use to estimate the answer?

- a. \$70 and \$10
- b. \$70 and \$20
- c. \$80 and \$40

ANSWER: She had about _____ left.

	1	2	3	4	5	6	
THINK:							Number Right
ANSWER:							

4. Mr. Ward spent \$21.35 on paint for the back hall. He spent \$69.82 on paint for the living room. About how much more did he spend on paint for the living room?

THINK: Which numbers should you use to estimate the answer?

- a. \$20 and \$70
- b. \$30 and \$70
- c. \$20 and \$60

ANSWER: He spent about

_____ more on paint for the living room.

5. Paul spent \$50.45 for bricks and boards to make bookshelves. If the boards cost \$29.53, about how much did he pay for the bricks?

THINK: Which numbers should you use to estimate the answer?

- a. \$30 and \$60
- b. \$10 and \$50
- c. \$30 and \$50

ANSWER: He paid about

_____ for the bricks.

6. Mrs. Ward had \$62.78 in her purse. She spent \$38.38 for food for a housewarming party. About how much did she have left after buying the food?

THINK: Which numbers should you use to estimate the answer?

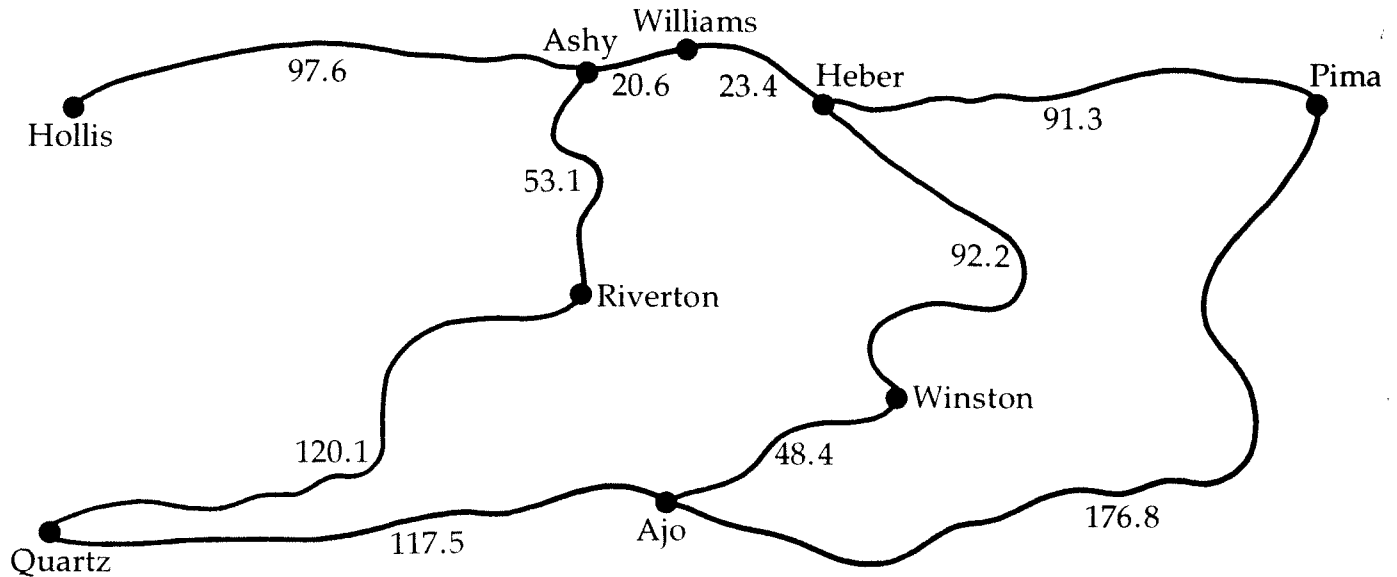
- a. \$70 and \$30
- b. \$80 and \$30
- c. \$60 and \$40

ANSWER: She had about

_____ left after buying the food.



Read and Use a Map



1. Tim is driving from Winston to Ajo. How many miles does he have to drive?

THINK: You should look for

- the distance between Ajo and Pima.
- the distance between Ajo and Winston.
- the distance between Winston and Heber.

ANSWER: He has to drive

_____ miles.

2. Edith lives in Quartz. She has a friend living in Riverton and a friend living in Ajo. Which friend lives farther away?

THINK: You should look for

- the distance between Riverton and Ajo.
- the distances between Ajo and Quartz, and Ajo and Riverton.
- the distances between Quartz and Ajo, and Quartz and Riverton.

ANSWER: The friend in

_____ lives farther away.

	1	2	3	4	5	6	
THINK:							Number Right
ANSWER:							

3. Gil lives in Hollis. His grandmother lives in Pima. How many miles is it between Hollis and Pima?

THINK: You should look for

- a. the longest distance on the map.
- b. the miles on the route between Hollis and Pima.
- c. the miles on the route between Hollis and Ajo.

ANSWER: It is _____ miles between Hollis and Pima.

4. Ms. Weiss lives in Riverton and Mr. Duval lives in Williams. They both work in Ashy. How much farther must Ms. Weiss travel to get to work than Mr. Duval?

THINK: You should look for

- a. the total distance between Riverton and Williams passing through Ashy.
- b. the total distance between Ashy and Riverton, and Heber and Ashy.
- c. the distances between Riverton and Ashy, and Williams and Ashy.

ANSWER: She must travel _____ miles farther.

5. The Pioneer Museum is 29.5 miles south of Winston. How far north is it from Ajo?

THINK: You should look for

- a. the distance between Winston and Heber.
- b. the distance between Winston and Ajo.
- c. the distance between Ajo and Heber.

ANSWER: It is _____ miles north of Ajo.

6. The Peters family left Heber and drove to Williams. Then they drove north 57.3 miles. How many miles did they drive in all?

THINK: You should look for

- a. the distance between Heber and Williams.
- b. the distance between Williams and Ashy.
- c. the distance between Heber and Hollis.

ANSWER: They drove _____ miles in all.

LESSON
18

Solve Two-Step Problems



To solve a two-step problem, you use two facts to get a new fact. Use the new fact to help you answer the question in the problem.

1. Don works 3 hours each day in The Village Record Shop. If he works 5 days a week, how many hours does he work in 20 weeks?

THINK: To find the answer you should

- multiply then divide.
- multiply then subtract.
- multiply then multiply.

ANSWER: He works _____ hours in 20 weeks.

2. Angie bought a record for \$4.33 and a poster for \$1.37. She gave the clerk \$10. How much change did she get back?

THINK: To find the answer you should

- add then subtract.
- multiply then subtract.
- add then multiply.

ANSWER: She got _____ in change.

3. Nelly spent a total of \$8.75 for records during June. In July she spent \$4.39 more for records than she spent in June. How much did she spend for records in total during June and July?

THINK: To find the answer you should

- multiply then add.
- add then add.
- subtract then add.

ANSWER: She spent a total of _____ for records during June and July.

	1	2	3	4	5	6	
THINK:							Number Right
ANSWER:							

4. The Village Record Shop had 720 jazz records. In December it sold 120 records. The remaining records were placed in groups of 30, with each group in a separate bin. How many bins were used?

THINK: To find the answer you should

- divide then add.
- subtract then multiply.
- subtract then divide.

ANSWER: _____ bins were used.

-
5. Mr. Aikens, the shop's manager, works 40 hours a week. He is paid \$9 an hour. One week he earned an extra \$108. How much did he earn in all that week?

THINK: To find the answer you should

- add then multiply.
- multiply then add.
- subtract then divide.

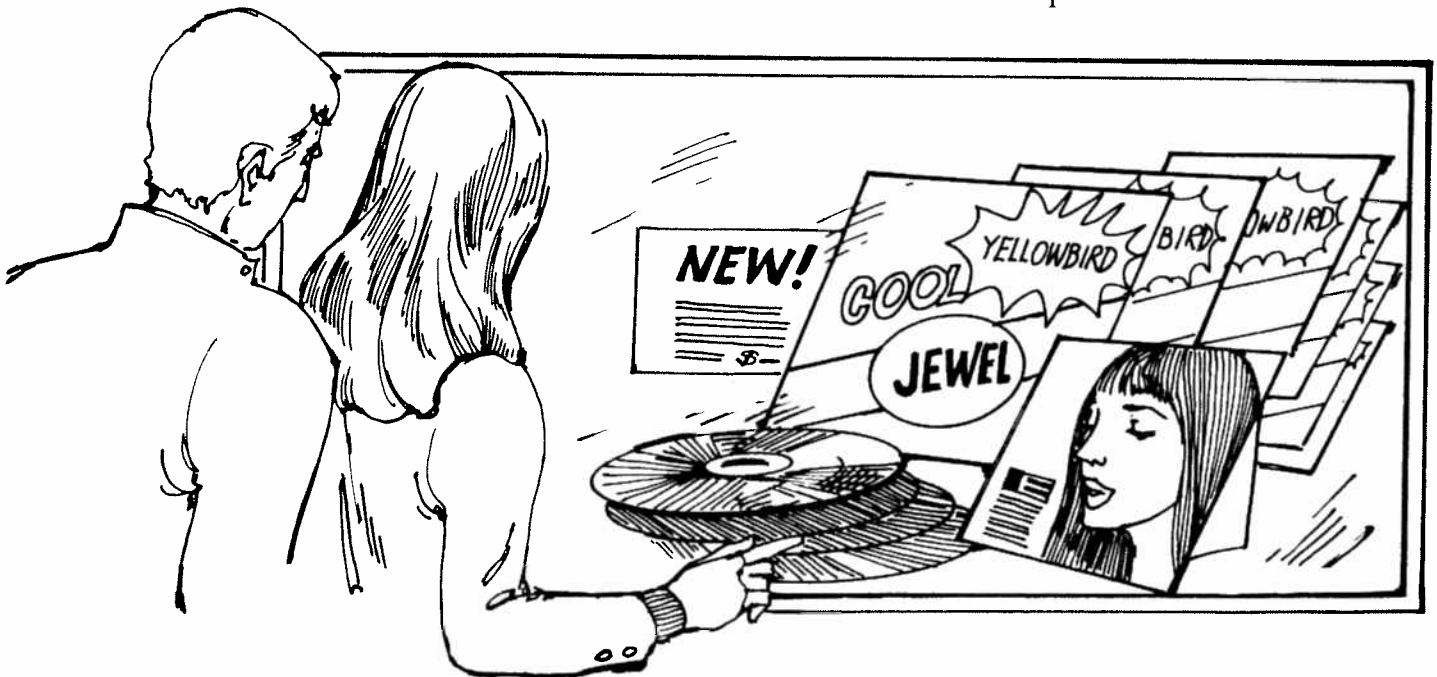
ANSWER: He earned _____ in all that week.

-
6. The shop received 900 copies of The Yellowbirds' new record. The record was shipped in boxes with 45 records in a box. Each box weighed 26 pounds. What was the total weight of the boxes?

THINK: To find the answer you should

- multiply then divide.
- divide then multiply.
- add then subtract.

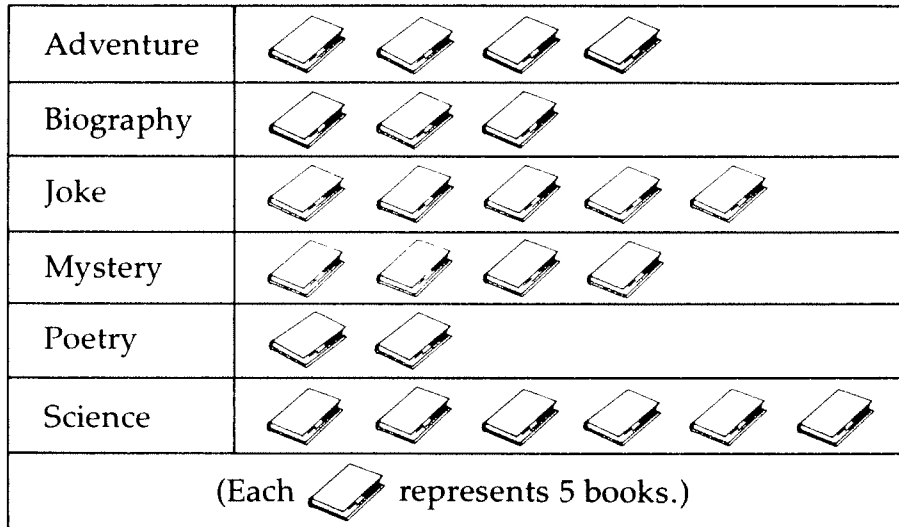
ANSWER: The total weight of the boxes was _____ pounds.



Read and Use a Picture Graph

Tip Sometimes you can read a picture graph to answer the question in a word problem.

Types of Books Read by the Fifth Grade



1. How many books are represented by each picture?

THINK: You should look for
 a. the name of the graph.
 b. the kinds of books.
 c. the words under the graph.

ANSWER: Each picture represents _____ books.

2. Which type of book was least read?

THINK: You should look for
 a. the greatest number of pictures.
 b. the fewest number of pictures.
 c. an even number of pictures.

ANSWER: _____ books were least read.

	1	2	3	4	5	6	
THINK:							Number Right
ANSWER:							

3. How many types of books were read by the same number of children?

THINK: You should look for

- a. the types of books that have more than 4 pictures next to them.
- b. the types of books that have fewer than 4 pictures next to them.
- c. the types of books that have the same number of pictures next to them.

ANSWER: _____ types of books were read by the same number of children.

4. How many mystery books were read in all?

THINK: You should look for

- a. the number of pictures next to *Mystery* and multiply by 5.
- b. the number of pictures next to *Mystery* and add 5.
- c. the number of pictures next to *Mystery* and divide by 5.

ANSWER: _____ mystery books were read in all.

5. How many more science books than poetry books were read?

THINK: You should look for

- a. the number of pictures next to *Science* and *Poetry*, multiply each by 5, and then subtract.
- b. the number of pictures next to *Science* and *Poetry* and then multiply the answer by 5.
- c. the number of pictures next to *Science* and *Poetry* and then subtract.

ANSWER: _____ more science books were read.

6. How many mystery books and adventure books were read in all?

THINK: You should look for

- a. the number of pictures next to *Mystery* and *Adventure* and then multiply the answer by 5.
- b. the number of pictures next to *Mystery* and *Adventure* and then add.
- c. the number of pictures next to *Mystery* and *Adventure*, multiply each by 5, and then add.

ANSWER: A total of _____ mystery and adventure books were read.

LESSON
20

Solve Two-Step Problems



To solve a two-step problem, you use two facts to get a new fact. Use the new fact to help you answer the question in the problem.

1. Last year 230 children attended Mayville Field Day. This year 25 more children attended. The same number of children came on each of 5 buses. How many children were on each bus?

THINK: To find the answer you should

- a. add then divide.
- b. divide then add.
- c. subtract then divide.

ANSWER: _____ children were on each bus.

2. Phil ran in 3 races that lasted 18 minutes each. Then he ran in a race that lasted 12 minutes. For how many minutes in all did he run in races?

THINK: To find the answer you should

- a. divide then multiply.
- b. subtract then add.
- c. multiply then add.

ANSWER: He ran in races for _____ minutes in all.

3. Kim's team scored 467 points in the high jump and 347 points in the three-legged race. Bill's team scored 1007 points for the same two events. How many more points in all did Bill's team score?

THINK: To find the answer you should

- a. subtract then subtract.
- b. add then subtract.
- c. subtract then add.

ANSWER: Bill's team scored _____ more points in all.

	1	2	3	4	5	6	
THINK:							Number Right
ANSWER:							

4. Rolly practiced 2 hours each day for the high jump event, 4 days a week. For how many hours did he practice in 52 weeks?

THINK: To find the answer you should

- add then multiply.
- multiply then multiply.
- add then divide.

ANSWER: He practiced _____ hours in 52 weeks.

-
5. Pepi ran the first lap of a race in 123 seconds. He ran the second lap 16 seconds faster. How long did it take him in all to run the two laps?

THINK: To find the answer you should

- subtract then add.
- multiply then add.
- add then add.

ANSWER: It took him _____ seconds in all to run the two laps.

-
6. Mr. Curry awarded 3 ribbons at the end of each event. He started out with 66 ribbons. By noon he had given away 45. How many events were left?

THINK: To find the answer you should

- subtract then divide.
- multiply then divide.
- add then divide.

ANSWER: There were _____ events left.



Review

This lesson reviews the **TIPS** you have learned in this book. Use each **TIP** to help you solve these problems. Circle the letter for your answer in the **THINK** section. Write your answer in the **ANSWER** section.



A. When you do not need an exact answer, estimate to solve a word problem. To estimate, round the facts.

1. Mendi had \$92.63 in her savings account. She paid \$37.26 for her bus ticket to camp. About how much did she have left?

THINK: Which numbers should you use to estimate the answer?

- a. 90 and 30 b. 100 and 40 c. 90 and 40

ANSWER: She had about _____ left.



B. If necessary facts are missing, word problems cannot be solved.

2. Carol bought oats for her horse. She fed it 145 pounds. How much does she have left?

THINK: Choose the information that is needed to solve the problem.

- a. She bought the oats on Tuesday.
b. She bought 500 pounds of oats.
c. Her horse eats 12 pounds of oats a day.

ANSWER: She has _____ pounds left.



C. To solve a two-step problem, you use two facts to get a new fact. Use the new fact to help you answer the question in the problem.

3. Bob picked 27 quarts of strawberries on Friday and 32 quarts on Saturday. He was paid \$0.30 per quart. How much did he earn?

THINK: To find the answer you should

- a. add then multiply.
b. subtract then add.
c. divide then add.














ANSWER: Bob earned _____.




D. Sometimes you can read a picture graph to answer the question in a word problem.

4. On which day did Liana pick fewer quarts of blueberries than she picked on Monday?

Quarts of Blueberries Picked

Monday	 
Tuesday	  
Wednesday	 
Thursday	
Friday	    

(Each  represents 5 quarts picked.)

THINK: You should look for

- a. a line of fewer pictures than Monday.
b. a line of more pictures than Monday.
c. a line of the same number of pictures as Monday.

ANSWER: Lianna picked fewer quarts of blueberries on _____ than on Monday.

Post-Test

Score _____

Choose the correct answers. Mark your answers in the answer rows below.

- | | |
|---|---|
| <p>1. Ms. Lambert bought workpants for \$13.69, a shirt for \$17.69, and a shirt for \$7.39. About how much did she spend?</p> <p>A \$37.00
B \$40.00
C \$25.00
D \$50.00
E none of these</p> | <p>5. Beth spend $\frac{5}{8}$ of her allowance on bus fare and $\frac{1}{8}$ for school supplies. How much did she spend? Which number sentence fits the problem?</p> <p>A $\frac{5}{8} + \frac{1}{8} = \square$
B $\frac{5}{8} - \frac{1}{8} = \square$
C $\frac{1}{8} - \frac{5}{8} = \square$
D $\frac{5}{8} = \frac{1}{8} + \square$
E none of these</p> |
| <p>2. Joe earns \$103.50 each week. About how much does he earn in 5 weeks?</p> <p>A \$105
B \$600
C \$200
D \$500
E none of these</p> | <p>6. How much did Beth spend? Use the number sentence you chose in problem 5.</p> <p>A $\frac{4}{8}$
B $\frac{1}{8}$
C $\frac{3}{8}$
D $\frac{6}{8}$
E none of these</p> |
| <p>3. Mr. Ross bought a house on 24 acres of land. How much more land will he have than where he lives now? Choose the information that is needed to solve the problem.</p> <p>A The new lot is 24 acres.
B The old lot is 10 acres.
C The land cost \$1000.
D The house cost \$60,000.
E none of these</p> | <p>7. The Statue of Liberty is 151 feet tall. The base she stands on is 154 feet fall. How high are the base and the statue in all?</p> <p>A 4 feet
B 305 feet
C 151 feet
D 154 feet
E none of these</p> |
| <p>4. How much more land will Mr. Ross have? Use the information in problem 3.</p> <p>A \$2400
B \$60,000
C 34 acres
D 14 acres
E none of these</p> | <p>8. There were 2 rolls for each boy. There were 14 boys. How many rolls were there?</p> <p>A 7 rolls
B 16 rolls
C 28 rolls
D 32 rolls
E none of these</p> |

ANSWER ROWS: 1. (A) (B) (C) (D) (E) 2. (A) (B) (C) (D) (E) 3. (A) (B) (C) (D) (E) 4. (A) (B) (C) (D) (E)
5. (A) (B) (C) (D) (E) 6. (A) (B) (C) (D) (E) 7. (A) (B) (C) (D) (E) 8. (A) (B) (C) (D) (E)





9. There were 18 hot dogs. 6 girls each ate the same number. They ate all the hot dogs. How many did each girl eat?
- A 24 hot dogs
 B 12 hot dogs
 C 108 hot dogs
 D 3 hot dogs
 E none of these


12. Sandy needed 144 squares for a quilt. She made 72 blue squares and 36 yellow squares. How many more squares does she need?
- A 36 squares
 B 72 squares
 C 108 squares
 D 252 squares
 E none of these

10. There were 250 cots in 5 rooms. If there were the same number of cots in each room, how many cots were in each room?
- A 255 cots
 B 245 cots
 C 50 cots
 D 5 cots
 E none of these

Use the picture graph to solve problems 13 and 14.

Mrs. Perez's Flower Bulbs

Daffodil	
Tulip	
Iris	
Day lily	

(Each  stands for 10 bulbs.)

11. Josy milks her goat 2 times each day. She gets 2 quarts each time she milks. How many quarts does she get in 7 days? To find the answer you should
- A add then subtract.
 B multiply then subtract.
 C add.
 D divide then add.
 E none of these

13. How many day lily bulbs does Mrs. Perez have?
- A 20 bulbs
 B 150 bulbs
 C 7 bulbs
 D 70 bulbs
 E none of these
14. How many more daffodil bulbs than tulip bulbs does Mrs. Perez have?
- A 20 bulbs
 B 30 bulbs
 C 40 bulbs
 D 70 bulbs
 E none of these

ANSWER 9. (A) (B) (C) (D) (E) 10. (A) (B) (C) (D) (E) 11. (A) (B) (C) (D) (E)
 ROWS: 12. (A) (B) (C) (D) (E) 13. (A) (B) (C) (D) (E) 14. (A) (B) (C) (D) (E)

Answer Key

Level
BLUE



		1	2	3	4	5	6
1	THINK	c	a	a	b	c	b
	ANSWER	999	39	1321	11	94	\$48
2	THINK	c	c	b	c	a	c
	ANSWER	9	42	45	82	\$135	30
3	THINK	b	a	c	b	c	a
	ANSWER	145	3920	580	1500	297	81
4	THINK	c	a	b	a	b	c
	ANSWER	90	170	\$40	\$150	30	4100
5	THINK	a	c	a	a	c	b
	ANSWER	Sat.	Wed.	2	10	45	\$240
6	THINK	c	c	b	c	b	a
	ANSWER	28	\$1710	33	\$321	3537	51
7	THINK	b	a	c	a	c	b
	ANSWER	\$9.55	\$9.45	\$1.20	\$9.58	\$.14	\$11.30
8	THINK	a	c	b	a	b	c
	ANSWER	954	90	1300	3894	68	231
9	THINK	b	c	a	c	c	a
	ANSWER	\$80	18	12	160	2060	750
10	THINK	a	b	c	c	c	b
	ANSWER	11	2	28	213	24	\$20

	1	2	3	4	5	6	
11	THINK	b	b	a	c	c	b
	ANSWER	Detroit	1939	.022	.321	.043	.364

12	THINK	c	c	a	a	b	b
	ANSWER	\$15.81	\$15.81	\$7.25	\$9.00	\$12.00	\$16.40

13	THINK	c	c	a	c	b	a
	ANSWER	$\frac{2}{3}$	$3\frac{3}{4}$	$\frac{7}{9}$	$4\frac{3}{8}$	$\frac{5}{6}$	$19\frac{5}{8}$

14	THINK	b	a	a	b	a	b
	ANSWER	$12\frac{5}{8}$	$\frac{7}{8}$	$3\frac{1}{4}$	4	$5\frac{4}{8}$	$\frac{7}{12}$

15	THINK	b	c	a	a	c	c
	ANSWER	\$23	\$1600	\$60	\$50	\$20	\$20

16	THINK	b	c	b	c	b	a
	ANSWER	48.4	Riverton	232.9	32.5	18.9	80.7

17	THINK	c	c	a	a	c	b
	ANSWER	$3\frac{5}{6}$	$\frac{9}{10}$	$2\frac{5}{10}$	$\frac{9}{10}$	$2\frac{3}{4}$	$\frac{1}{8}$

18	THINK	c	a	b	c	b	b
	ANSWER	300	\$4.30	\$21.89	20	\$468	520

19	THINK	c	b	c	a	a	c
	ANSWER	5	Poetry	2	20	20	40

20	THINK	a	c	b	b	a	a
	ANSWER	51	66	193	416	230	7

21	THINK	c	b	a	a
	ANSWER	\$50	355	\$17.70	Thursday

SKILLS SHARPENER
KEEP COOL