Name: _____ Date: _____

Worksheet 2 Using a Table

Find the data by studying the rows, columns, and intersections.

The table shows the departure times and destinations of some buses.

Bus Schedule

Step 1 Look under Destination for the row that shows Boston.

Destination	Departure 3 P.M.	Departure 5 P.M.	Departure 9 P.M.
Newark	X24	T48	U36
Cleveland	V11	S27	Y32
Boston	**W77**	P88	Q10

Step 2 Look across this row for a 3 P.M. departure.

Step 3 The intersection where the Boston row meets the 3 P.M. departure column shows W77.

Example

Mr. Sanchez wants to reach his home in Boston in time for dinner at 8 P.M. The bus journey takes about 4 hours. Which bus should he take to reach home in time for dinner?

4 hours after 3 P.M. is 7 P.M.

He should take bus W77.

1. Which buses go to Boston? _____, _____, and _____

2. Which buses depart at 5 P.M.? _____, _____, and _____

Name: _____ **Date:** _____

3. The bus journey to Newark takes about 30 minutes. Which bus must Mr. Daniels take to reach his home in Newark in the evening? _____

4. Ms. Williams can only reach the bus station at 4.40 P.M. Which buses can she take to Cleveland? _____ or _____

Complete. Use the data in the table.

The table shows the favorite fruit of a group of students.

Favorite Fruit of a Group of Students

Fruit	Number of Boys	Number of Girls	Total Number
Apple	20	22	42
Orange	8	7	15
Pear	9	14	23
Banana	21	13	34
Guava	4	6	10

Example

The greatest number of students prefer apples.

5. The least number of students prefer _____.

6. _____ more students prefer bananas to oranges.

7. _____ more girls than boys prefer pears.

8. 32 fewer students prefer guavas to _____.

9. There are a total of _____ boys in the survey.

Name: _____ Date: _____

Complete the table using the following data. Answer the questions.

- There are 200 students in a school.
- 76 students take the bus to school.
- 1 student takes a taxi to school.
- 54 students walk to school.
- 42 students cycle to school.
- Some students live on the school campus.

Example

How many students do not live on the school campus?

$76 + 1 + 54 + 42 = 173$

173 students do not live on the school campus.

10. How many students live on the school campus? _____

11. Complete the table.

Mode of Transportation	Bus	Taxi	Walk	Cycle
Number of Students				

12. Which is the least used mode of transportation? _____

13. How many students take the bus or cycle to school? _____

14. How many more students walk to school than cycle? _____

Name: _____ Date: _____

Complete the table.

The table shows the number of red and green apples sold on Monday through Friday.

Number of Apples Sold on Monday Through Friday

Day	Number of Green Apples	Number of Red Apples	Total Number of Apples
Monday	60	$80 - 60 = 20$	80
Tuesday	15	50	
Wednesday	30		100
Thursday		70	120
Friday	40		
Total			600

15. On which day was the greatest number of apples sold? _____

16. On which day was the least number of apples sold? _____

17. Which type of apples sold the most? _____

18. On which day was the number of green apples sold three times the number of red apples sold? _____

19. How many more apples were sold on Friday than on Tuesday?

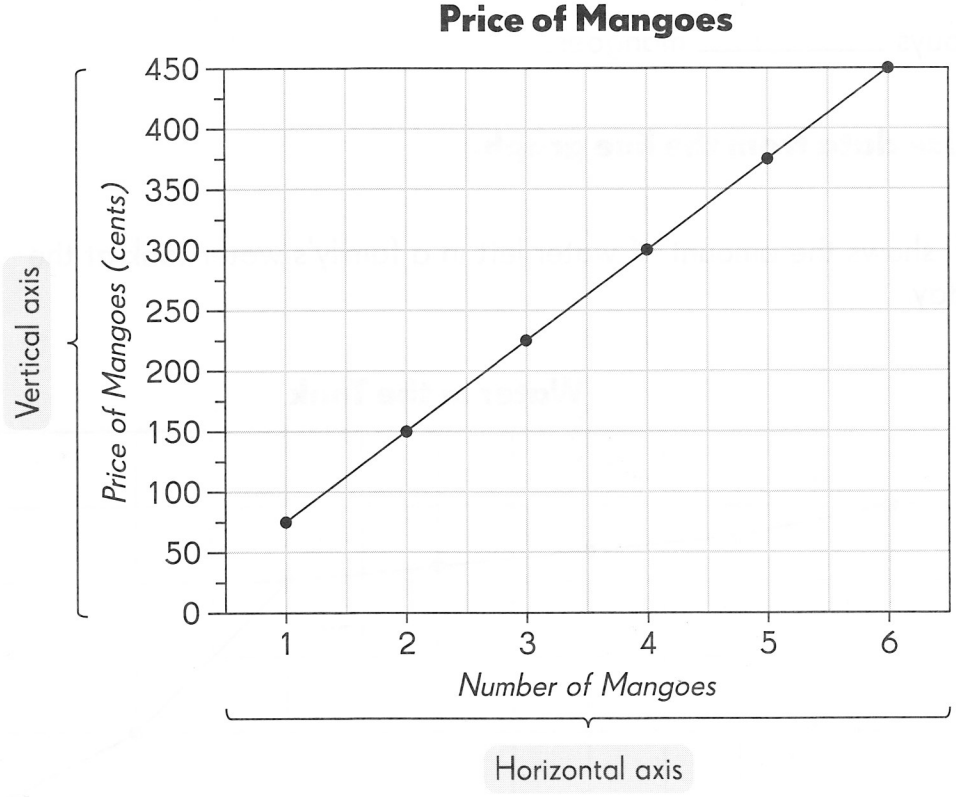
_____

Name: _____ Date: _____

Worksheet 3 Line Graphs

Complete. Use data from the line graph.

The line graph shows the price of mangoes.



Example

What is the cost of 1 mango?

Step 1 Find 1 along the horizontal axis.

Step 2 Move up until you meet a point on the graph.

Step 3 From that point on the graph, move left until you meet the vertical axis.

Step 4 The point on the vertical axis is 75 cents.

1 mango costs 75 cents.

Name: _____ **Date:** _____

1. Find the cost of 6 mangoes. Give your answer in dollars and cents.

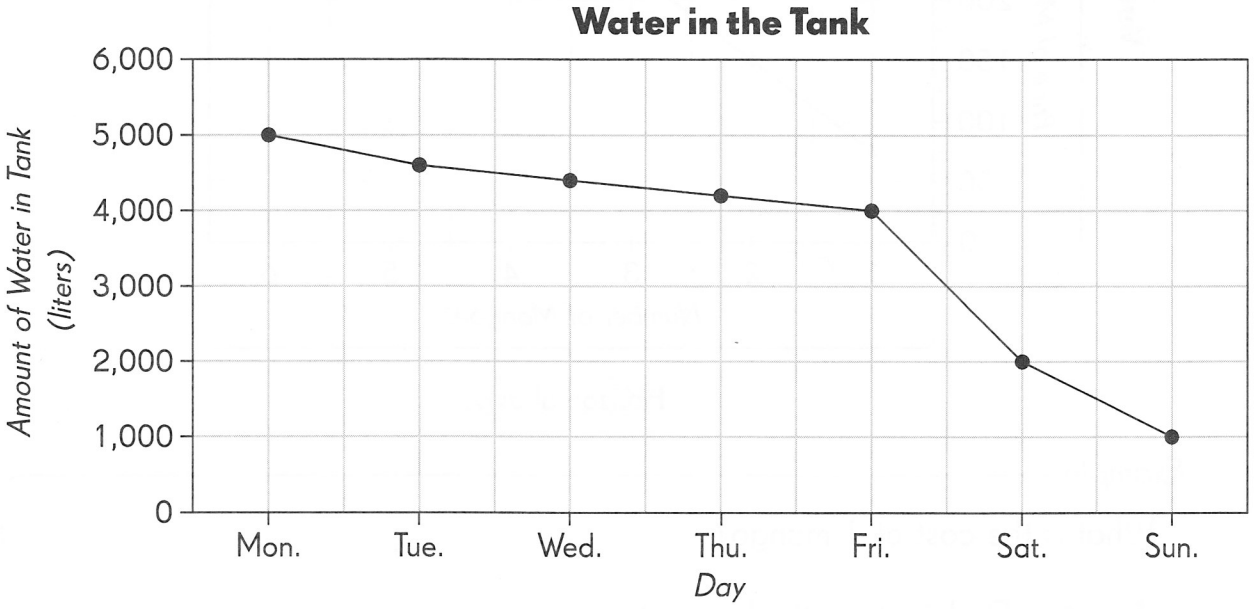
6 mangoes cost _____.

2. Jerry pays $3.75 for some mangoes. How many mangoes does he buy?

Jerry buys _____ mangoes.

Complete. Use data from the line graph.

The line graph shows the amount of water left in a family's water tank at the end of each day.



3. How much water was left in the tank on Sunday? _____ liters

4. What is the difference in the amounts of water left in the tank on Friday and on Sunday? _____ liters

Name: _____ **Date:** _____

5. **a.** Between which two days was the decrease in the amount of water left in the tank the greatest?

Between _____ and _____

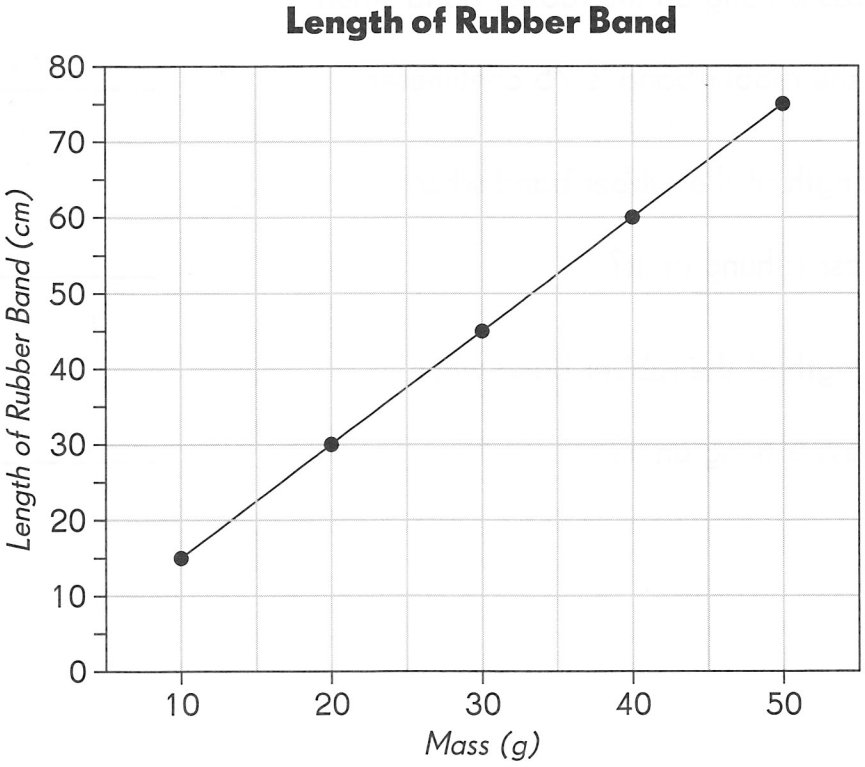
b. What was the decrease in the amount of water? _____ liters

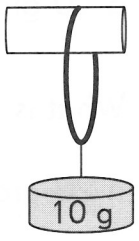
6. There are 4 members in the family. Each family member uses the same amount of water. How much water does each family member use from Monday through Sunday?

Each family member uses _____ liters of water.

Complete. Use data from the line graph.

The line graph shows the length of a rubber band when various masses are hung on it.





Name: _____ **Date:** _____

Example

How much mass is hung on the rubber band when the length of the rubber band is 45 centimeters?

Step 1 Find 45 centimeters along the vertical axis.

Step 2 Move right until you meet a point on the graph.

Step 3 Move down from that point until you meet the horizontal axis.

Step 4 The point on the horizontal axis is 30 grams.

30 grams is hung on the rubber band.

7. How much mass is hung on the rubber band when the length of the rubber band is 60 centimeters? _____

8. How much mass is hung on the rubber band when the length of the rubber band is 75 centimeters? _____

9. What is the length of the rubber band when a 10-gram mass is hung on it? _____

10. What is the length of the rubber band when a 20-gram mass is hung on it? _____

Name: _____ Date: _____

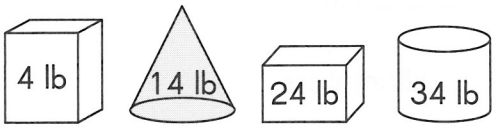
CHAPTER 5 Data and Probability

Worksheet 1 Average

Find the mean or average of each set of data.

Example

The weights of four objects are shown below.



$$\text{Mean or average} = \frac{\text{Total number or amount}}{\text{Number of items}}$$

Step 1 Find the total weight of all the objects.

4 + 14 + 24 + 34 = 76 lb

Step 2 Divide the total weight by the number of objects.

76 ÷ 4 = 19 lb

The average weight of the four objects is 19 pounds.

1. The volumes of five containers are listed below.

48 mL, 26 mL, 32 mL, 57 mL, 97 mL

Step 1 Find the total volume of all the containers.

_____ + _____ + _____ + _____ + _____ = _____ mL

Step 2 Divide the total volume by the number of containers.

_____ ÷ 5 = _____ mL

The average volume of the containers is _____ milliliters.

Name: _____ **Date:** _____

2. The distances traveled by some trucks are listed below.

536 km, 450 km, 152 km, 824 km, 375 km, 459 km

Total distance = _____ + _____ + _____ + _____ +

_____ + _____

= _____ km

Average distance = _____ ÷ 6 = _____ km

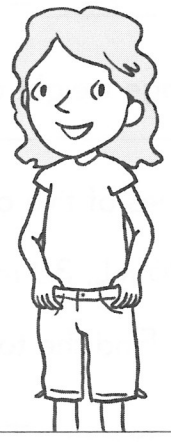
The average distance traveled is _____ kilometers.

Find the total from the mean or average.

Example

The mean length of a side of a square plot of land is 11 meters. What is the plot's perimeter?

Total number or amount
= Mean or average × Number of items



A square plot of land has 4 equal sides.
11 × 4 = 44 meters

The plot's perimeter is 44 meters.

Name: _____ **Date:** _____

3. A bottle of milk is poured into 8 smaller cartons. The mean volume of milk in each carton is 375 milliliters. What is the total volume of milk in the cartons?

4. Mrs. Ellis spent an average of $28 on a book. She bought 185 books for the school library. What is the total amount of money Mrs. Ellis spent?

5. Mary walks to school every day. She walks an average distance of 750 meters each day. What is the total distance Mary walked in 5 days?

Total distance Mary walked in 5 days

= _____ × _____ = _____ m

She walked _____ meters in 5 days.

Name: _____ **Date:** _____

6. The arm lengths of 7 students are measured during a math class. The average length of their arms is 68 centimeters. Find the total length of their arms.

7. The table shows the scores Joe received for four tests.

Test	First	Second	Third	Fourth
Score	67	74	?	92

Joe's mean score for the four tests is 79.

a. Find the total score for the four tests.

b. What is Joe's score for the third test?

Name: _____ Date: _____

Complete. Use the data in the table.

The table shows the number of basketball games that Rudd played in during two years.

Opponent	Number of games
Dallas	10
Lancaster	9
Chicago	13
Seattle	11
Washington	15

Example

Rudd played 11 games against Seattle.

8. Rudd played the most games against _____.

9. Rudd played a total of _____ games in two years.

10. The average number of games Rudd played a year is _____.

Name: _____ **Date:** _____

Solve.

Calvin bought 1 kilogram of each type of nut.

Example

How many kilograms of nuts did Calvin buy altogether?

Calvin bought 3 kilograms of nuts altogether.

11. How much did he pay altogether?

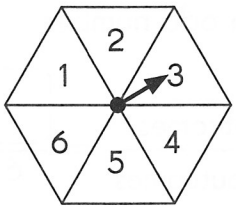
12. Find the average price of a kilogram of nuts.

Name: _____ Date: _____

Worksheet 5 Probability as a Fraction

Find the probability as a fraction in simplest form.

Shawn made a spinner with 6 equal parts. He labeled each part with the numbers 1 through 6. Shawn spins the spinner once.



Example

Find the probability of landing on 2 or 3.

Step 1 Find the number of favorable outcomes.

There are only 2 favorable outcomes.

Step 2 Find the total number of possible outcomes.

There are 6 possible outcomes.

Step 3 Find the probability as a fraction.

Probability of a favorable outcome

$$= \frac{\text{Number of favorable outcomes}}{\text{Total number of possible outcomes}} = \frac{2}{6} = \frac{1}{3}$$

The probability of landing on 2 or 3 is $\frac{1}{3}$.

Name: _____ **Date:** _____

1. The probability of landing on an odd number.

The odd numbers are _____, _____, and _____.

Number of favorable outcomes = _____

Number of possible outcomes = 6

Probability of landing on an odd number

$$= \frac{\text{Number of favorable outcomes}}{\text{Total number of possible outcomes}} = \frac{\square}{6} = \frac{\square}{\square}$$

The probability of landing on an odd number is _____.

2. The probability of landing on a number less than 5.

The numbers less than 5 are _____, _____, _____, and _____.

Number of favorable outcomes = _____

Number of possible outcomes = _____

Probability of landing on a number less than 5

$$= \frac{\text{Number of favorable outcomes}}{\text{Total number of possible outcomes}} = \frac{\square}{6} = \frac{\square}{\square}$$

The probability of landing on a number less than 5 is _____.

Name: _____ **Date:** _____

3. The probability of landing on a number greater than 3.

The numbers greater than 3 are _____, _____, and _____.

Number of favorable outcomes = _____

Number of possible outcomes = _____

Probability of landing on a number greater than 3

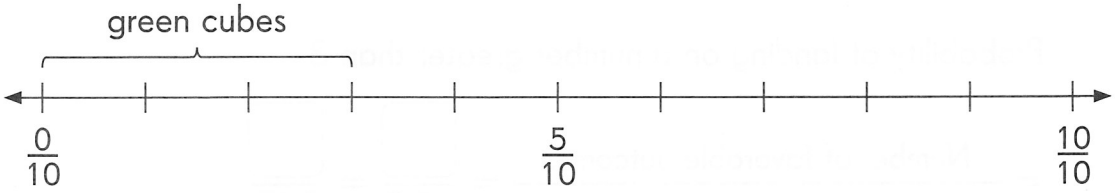
$$= \frac{\text{Number of favorable outcomes}}{\text{Total number of possible outcomes}} = \frac{\square}{\square} = \frac{\square}{\square}$$

The probability of landing on a number greater than 3 is _____.

Name: _____ **Date:** _____

Find each probability on the number line as a fraction in simplest form. Then describe the probability of each outcome as *certain*, *impossible*, *more likely*, *less likely*, or *equally likely*.

There are 5 red cubes, 3 green cubes, and 2 yellow cubes in a bag. One cube is drawn from the bag.

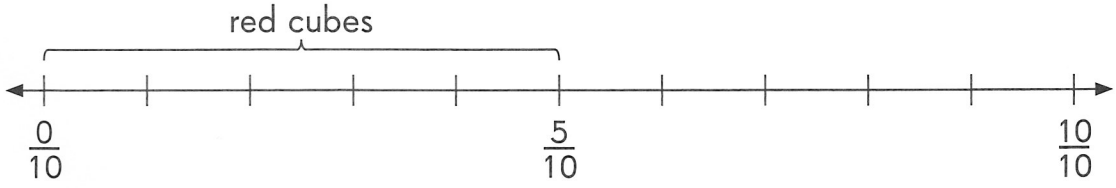


Example

The probability of drawing a green cube is $\frac{3}{10}$.

The number line shows that the likelihood of this outcome is less likely as $\frac{3}{10}$ is nearer to $\frac{0}{10}$ than to $\frac{10}{10}$.

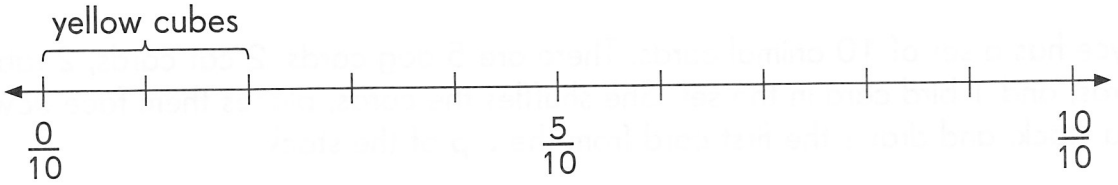
4. The probability of drawing a red cube.



Probability: $\frac{\square}{\square} = \frac{\square}{\square}$ Likelihood of outcome: _____

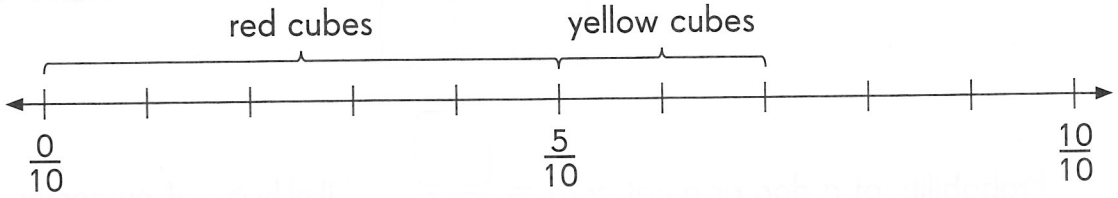
Name: _____ Date: _____

5. The probability of drawing a yellow cube.



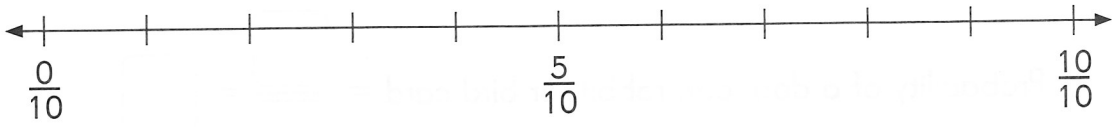
Probability: $\frac{\square}{\square} = \frac{\square}{\square}$ Likelihood of outcome: _____

6. The probability of drawing a red cube or a yellow cube.



Probability: $\frac{\square}{\square}$ Likelihood of outcome: _____

7. The probability of drawing a blue cube.



Probability: $\frac{\square}{\square} = \square$ Likelihood of outcome: _____

Name: _____ Date: _____

Find the probability of each outcome. Then describe the outcome as *certain*, *impossible*, *more likely*, *less likely*, or *equally likely*.

Joyce has a set of 10 animal cards. There are 5 dog cards, 2 cat cards, 2 rabbit cards, and 1 bird card in the set. She shuffles the cards, places them face down in a stack, and draws the first card from the top of the stack.

Example

Probability of a dog card $= \frac{5}{10} = \frac{1}{2}$

It is equally likely to draw a dog card.

8. Probability of a rabbit card $= \frac{\square}{\square} = \frac{\square}{\square}$ Likelihood of outcome: _____

9. Probability of a dog or a cat card $= \frac{\square}{\square}$ Likelihood of outcome: _____

10. Probability of a cat, rabbit, or a bird card $= \frac{\square}{\square} = \frac{\square}{\square}$

Likelihood of outcome: _____

11. Probability of a dog, cat, rabbit, or bird card $= \frac{\square}{\square} = \square$

Likelihood of outcome: _____

12. Probability of a mouse card $= \frac{\square}{\square} = \square$ Likelihood of outcome: _____

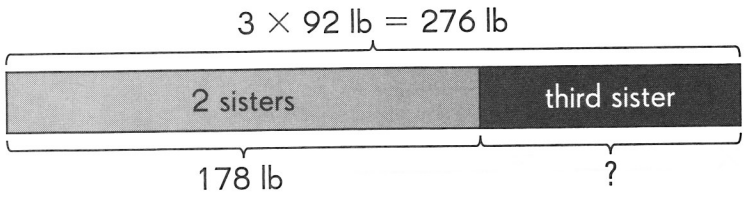
Name: _____ Date: _____

Worksheet 6 Real-World Problems: Data and Probability

Solve each problem using the mean. Show your work.

Example

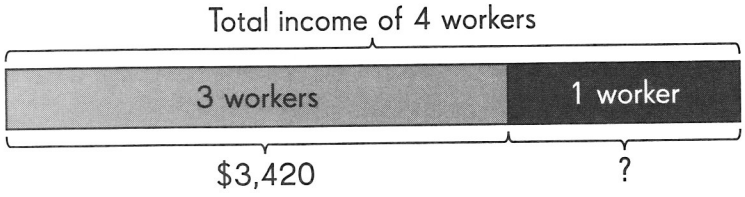
The mean weight of 3 sisters is 92 pounds.
The total weight of 2 of the sisters is 178 pounds.
Find the weight of the third sister.



Total weight = 3 × mean weight = 3 × 92 lb = 276 lb
Weight of the third sister = Total weight − 178 lb
= 276 lb − 178 lb
= 98 lb

The weight of the third sister is 98 pounds.

1. The mean income of 4 workers is $1,250.
The total income of 3 of the workers is $3,420.
Find the income of the fourth worker.



Total income of 4 workers = 4 × mean income

= 4 × _____ = _____

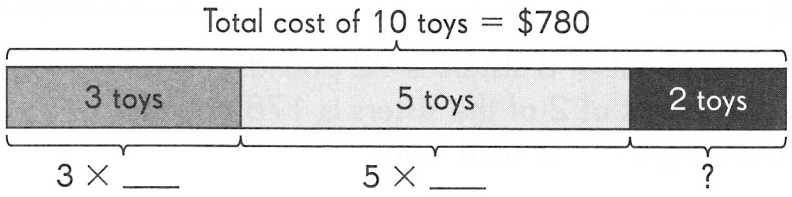
Income of 3 workers = $3,420

Income of the 4th worker = _____ − _____ = _____

The income of the 4th worker is $_____.

Name: _____ **Date:** _____

2. The total cost of 10 toys is $780.
The mean cost of 3 of the toys is $40.
The mean cost of 5 of the other toys is $50.
Find the mean cost of the remaining 2 toys.



Cost of 3 toys = 3 × _____ = _____

Cost of 5 toys = 5 × _____ = _____

Cost of 8 toys = _____ + _____ = _____

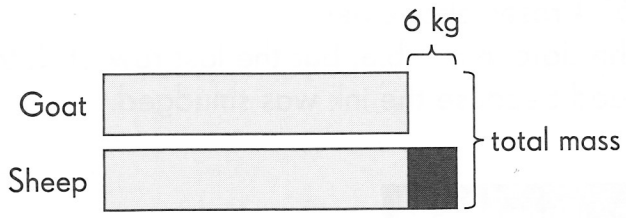
Cost of the remaining 2 toys = _____ − _____ = _____

Mean cost of the 2 toys = $\frac{\square}{2}$ = _____

The mean cost of the remaining 2 toys is $_____.

Name: _____ **Date:** _____

3. The mean mass of a goat and a sheep is 78 kilograms.
The sheep is 6 kilograms heavier than the goat.
Find the mass of each animal.



Total mass of the goat and sheep

$= 2 \times$ _____

$=$ _____

2 units → Total mass $-$ _____

$=$ _____ $-$ _____

$=$ _____

1 unit → $\frac{\square}{2} =$ _____

The mass of the goat is _____ kilograms.

_____ $+$ 6 kg $=$ _____

The mass of the sheep is _____ kilograms.

Name: _____ Date: _____

Solve each problem to find the mean, median, mode, and range. Show your work.

4. A gardener delivered roses to 6 florists.
He delivered 684 roses altogether.
He recorded the data in a table, but the last row of data could not be read because the ink was smudged.

Florist	Number of Roses
A	108
B	156
C	96
D	120
E	84
F	?

Example

Find the mean number of roses he delivered.

Mean $= \frac{684}{6} = 114$

The mean number of roses he delivered is 114.

a. How many roses did he deliver to Florist F?

Number of roses delivered to 5 florists

= _____ + _____ + _____ + _____ + _____

= _____

Number of roses delivered to Florist F

= Total number of roses − _____

= _____ − _____

= _____

The number of roses he delivered to Florist F is _____.

Name: _____ Date: _____

b. Find the range of the number of roses he delivered.

Range = Greatest number − Least number

= _____ − _____

= _____

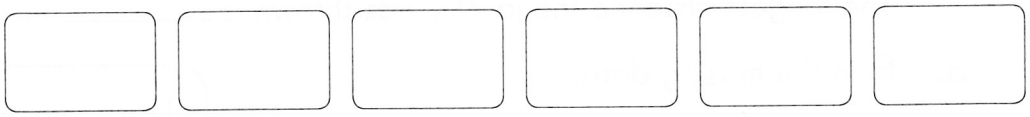
The range of the number of roses delivered is _____.

c. Find the mode of the set of data.

The mode of the set of data is _____.

d. Find the median of the set of data.

Order the numbers from least to greatest.



The middle numbers are _____ and _____.

$$\text{Mean} = \frac{\square + \square}{2} = \square$$

The median of the set of data is _____.

Name: _____ **Date:** _____

5. In a javelin competition, Sam threw the javelin 5 times. The table shows the distance the javelin traveled on each throw. The recorder misplaced 2 of the 5 readings.

Throw	1	2	3	4	5
Distance	68 m	72 m	66 m	?	?

Help the recorder to find the two missing readings using this information.

The range of the data is 8 meters.
The shortest distance thrown is 66 meters.
The mean distance thrown is 70 meters.

a. Find the longest distance the javelin was thrown.

Range = Longest distance − Shortest distance

Longest distance = _____ + _____ = _____

The longest distance the javelin was thrown is _____ meters.

b. Find the missing data.

Use average or mean to find the total.

Total distance
= mean distance × number of throws

= _____ × 5 = _____

The missing data
= total distance − distance of the 4 throws

= _____ − 68 m − 72 m − 66 m − _____

= _____

The missing data is _____ meters.

c. Find the median distance of the 5 throws.

Order the distances from least to greatest.

The median distance is _____ meters.

Name: _____ Date: _____

Solve each problem using a stem-and-leaf plot.

6. Mr. Williams deposits money in his bank account once a month for 12 months.

Amount of Money	
Stem	**Leaves**
6	3 6 8
7	2 ?
8	0 4 4 9
9	1 2 7

6 | 3 stands for 63

Example

The mean amount of money he deposits each month is $80.
Find the total amount of money he deposits in 12 months.

Total amount of money = Mean × Number of months
= $80 × 12
= $960

He deposits $960 in 12 months.

a. Find the missing data in stem 7.

Total amount − Amount of money deposited in 11 months

= ☐ − ☐ − ☐ − ☐ − ☐ − ☐ − ☐ −
☐ − ☐ − ☐ − ☐ − ☐ = ☐

The missing data in stem 7 is $_____.

b. The mode of the set of data is _____.

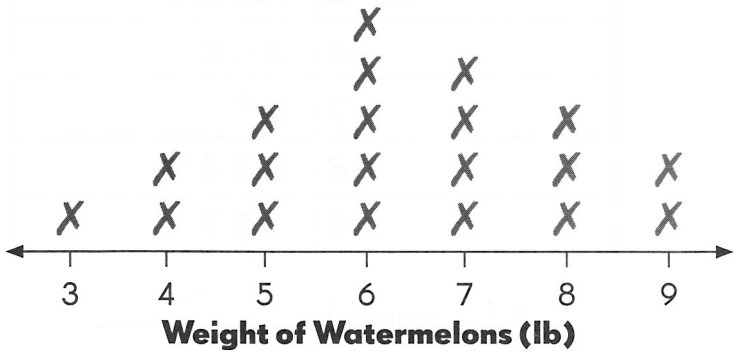
c. The median of the set of data is _____.

d. The range of the set of data is _____.

Name: _____ **Date:** _____

Solve. Show your work.

7. The line plot shows the weight of watermelons (rounded to the nearest pound) sold at a supermarket. Each ✗ represents 1 watermelon.



a. The mode of the set of data is _____ pounds.

b. The median weight of the watermelons is _____ pounds.

c. Each pound of watermelon costs $3. What is the total cost of all the watermelons?

The total cost of all the watermelons is $_____.

Name: _____ Date: _____

Solve each problem by finding the probability or by describing the outcome. Show your work.

8. A bag contains 16 marbles.
6 marbles are red, 5 are blue, 3 are green, and 2 are yellow.

Example

Sylvia draws 1 marble from the bag.
What is the probability that the marble is red?

Number of favorable outcomes $= 6$
Number of possible outcomes $= 16$

Probability of drawing a red marble $= \frac{6}{16} = \frac{3}{8}$

The probability that the marble is red is $\frac{3}{8}$.

a. Sylvia returns the red marble to the bag. Then she draws 2 marbles from the bag, one at a time. Describe the outcome as *certain*, *impossible*, *more likely*, *less likely*, or *equally likely*.

i. It is _____ that the first marble is yellow.

ii. If the first marble is green, it is _____ that the second marble is yellow or green.

iii. If the first marble is red, it is _____ that the second marble is red, yellow, or green.

iv. If the first marble is blue, it is _____ that the second marble is red, blue, green, or yellow.

Name: _____ Date: _____

b. Sylvia returns the 2 marbles to the bag, and Tyron adds 1 blue marble and 3 green marbles to the bag. He then draws 1 marble from the bag. Find the probability as a fraction in simplest form.

i. What is the probability that a red marble is drawn?

Number of favorable outcomes = _____

Number of possible outcomes = 16 + 1 + 3 = _____

Probability of drawing a red marble

$= \frac{\square}{\square} = \frac{\square}{\square}$

The probability that a red marble is drawn is _____.

ii. What is the probability that Tyron draws a red, blue, or green marble?

Number of favorable outcomes = _____

Number of possible outcomes = _____

Probability of drawing a red, blue, or green marble

$= \frac{\square}{\square} = \frac{\square}{\square}$

The probability that Tyron draws a red, blue, or green marble is _____.

Name: _____ Date: _____

Worksheet 8 Real-World Problems: Fractions

Solve. Show your work.

Example

Three friends shared a pie. Susan ate $\frac{1}{4}$ of the pie.

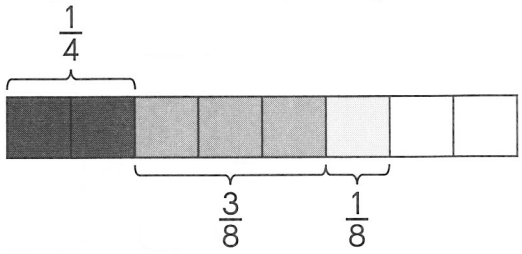
Daniel ate $\frac{3}{8}$ of the pie. Joe ate $\frac{1}{8}$ of the pie.

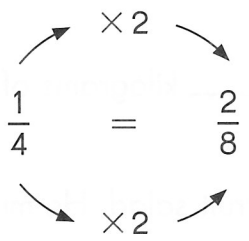
What fraction of the pie did they eat altogether?

$\frac{1}{4} + \frac{3}{8} + \frac{1}{8} = \boxed{\frac{2}{8}} + \frac{3}{8} + \frac{1}{8}$

$= \boxed{\frac{6}{8}} = \boxed{\frac{3}{4}}$

They ate $\frac{3}{4}$ of the pie.





1. Lisa, Sam, and Marco each bought some dried fruit.

Lisa bought $\frac{2}{3}$ pound of dried fruit. Sam and Marco each bought $\frac{5}{6}$ pound of dried fruit. How much dried fruit did they buy altogether?

$\frac{2}{3} + \frac{5}{6} + \frac{5}{6} = \boxed{} + \frac{5}{6} + \frac{5}{6}$

$= \boxed{} = \boxed{} = \boxed{}$

They bought _____ pounds of dried fruit altogether.

Name: _____ **Date:** _____

2. Mrs. Jackson baked muffins one day. She used $\frac{1}{4}$ kilogram of flour to bake the first batch of muffins. She used $\frac{7}{12}$ kilogram of flour to bake the second batch, and another $\frac{11}{12}$ kilogram of flour for the third batch. How much flour did she use altogether?

$$\frac{1}{4} + \frac{7}{12} + \frac{11}{12} = \square + \frac{7}{12} + \frac{11}{12}$$

$$= \square = \square$$

She used _____ kilograms of flour altogether.

3. Edison made a fruit salad. He mixed $\frac{7}{12}$ pound of apples and $\frac{3}{4}$ pound of strawberries. He then added $\frac{5}{12}$ pound of banana. What was the total weight of the fruit salad?

Name: _____ **Date:** _____

Example

Kathy has 1 loaf of whole grain bread.

She cuts $\frac{2}{3}$ of it for her friend and $\frac{1}{12}$ for herself.

What fraction of the bread is left?

Method 1

$1 - \frac{2}{3} - \frac{1}{12}$

$= \frac{12}{12} - \frac{8}{12} - \frac{1}{12}$

$= \frac{3}{12}$

$= \frac{1}{4}$

$\frac{1}{4}$ loaf of bread is left.

Method 2

$\frac{2}{3} + \frac{1}{12} = \frac{8}{12} + \frac{1}{12}$

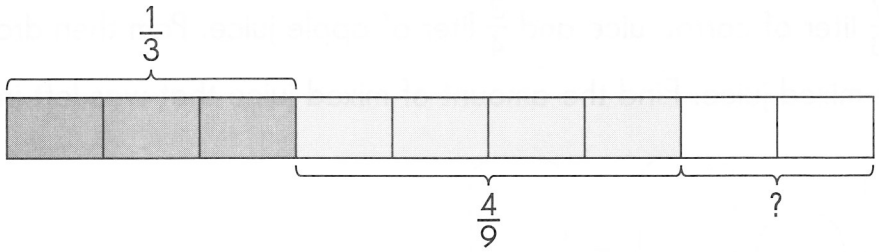
$= \frac{9}{12}$

$\frac{12}{12} - \frac{9}{12} = \frac{3}{12}$

$= \frac{1}{4}$

$\frac{1}{4}$ loaf of bread is left.

4. Sam spent $\frac{1}{3}$ of his time playing soccer and $\frac{4}{9}$ of his time doing homework. He spent the rest of his time playing computer games. How much of his time did Sam spend playing computer games?



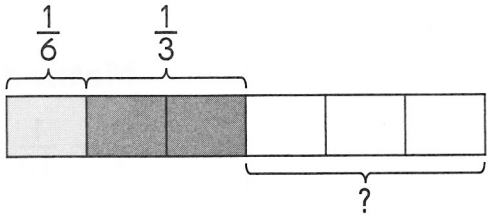
$\frac{1}{3} + \frac{4}{9} = \frac{\square}{9} + \frac{4}{9} = \frac{\square}{9}$

$1 - \square = \frac{9}{9} - \square = \square$

Sam spent _____ of his time playing computer games.

Name: _____ Date: _____

5. Latoya bought a pizza. She ate $\frac{1}{6}$ of the pizza and gave $\frac{1}{3}$ of it to her sister. She kept the rest of the pizza for her grandmother. How much of the pizza did Latoya keep for her grandmother?



$\frac{1}{6} + \frac{1}{3} = \square + \square = \square$

$1 - \square = \square - \square = \square = \square$

Latoya kept _____ of the pizza for her grandmother.

6. Pam made mixed juice from carrot juice and apple juice. She filled a jug with $\frac{7}{8}$ liter of carrot juice and $\frac{3}{4}$ liter of apple juice. Pam then drank $\frac{3}{8}$ liter of the mixed juice. Find the amount of mixed juice that was left in the jug.

$\square \bigcirc \square = \square$

$\square \bigcirc \square = \square = \square$

_____ liters of mixed juice was left in the jug.

Name: _____ **Date:** _____

Example

Ling bought a total of 12 apples. Of the apples she bought, 8 are red apples and 4 are green apples.

a. What fraction of the apples are red?

b. What fraction of the apples are green?

a. 8 out of 12 is $\frac{8}{12}$.

$\frac{8}{12} = \frac{2}{3}$ $\frac{2}{3}$ of the apples are red.

b. $1 - \frac{2}{3} = \frac{1}{3}$

$\frac{1}{3}$ of the apples are green.

7. Elan has a bag of 10 marbles. He gives 4 marbles to his brother.

a. What fraction of his marbles does Elan give away?

4 out of 10 is $\frac{\square}{\square}$.

$\frac{\square}{\square} = \frac{\square}{\square}$ Elan gives away _____ of his marbles.

b. What fraction of the marbles are left?

$1 -$ _____ $=$ _____

_____ of the marbles are left.

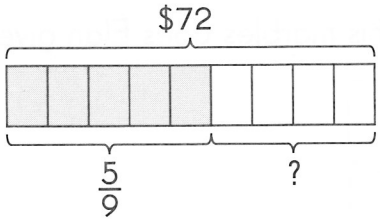
Name: _____ **Date:** _____

8. Bernice has a ribbon that is 12 centimeters long. She cuts 8 centimeters off the length of the ribbon. What fraction of the ribbon is left?

Example

Dianne has \$72. She uses $\frac{5}{9}$ of it to buy a present for her father.

How much money does Dianne have left?



Method 1

9 units = \$72

1 unit = \$72 ÷ 9

= \$8

4 units = \$8 × 4

= \$32

Dianne has \$32 left.

Method 2

$\frac{5}{9}$ of \$72 = $\frac{5}{9} \times$ \$72

= $\frac{\$360}{9}$

= \$40

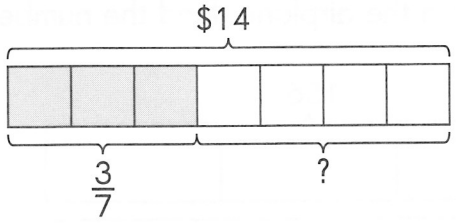
Dianne spent \$40.

\$72 − \$40 = \$32

Dianne has \$32 left.

Name: _____ Date: _____

9. Winton was given \$14 to spend at his school fair. He spent $\frac{3}{7}$ of the money playing games. How much money did Winton have left?



Method 1

____ units = \$____

1 unit = \$____

____ units = \$____ × ____

= \$____

\$14 − \$____ = \$____

Winton had \$____ left.

Method 2

$\frac{3}{7}$ of \$14 = ____ × \$____

= ____ × \$____

= \$____

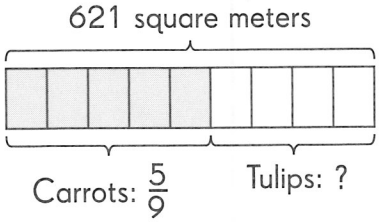
He spent \$____.

\$14 − \$____ = \$____

Winton had \$____ left.

10. Chris planted carrots on $\frac{5}{9}$ of his farm and tulips on the rest of the land. The total area of his farm is 621 square meters.

Find the area of the land on which he planted tulips.



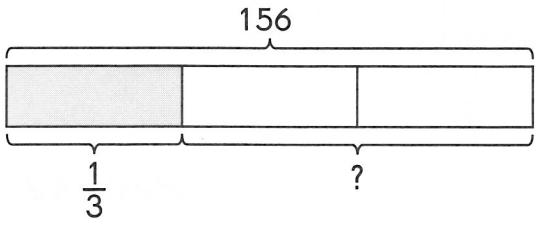
Method 1

Method 2

Name: _____ **Date:** _____

11. Of all the seats in an airplane, $\frac{1}{3}$ are business-class seats, and the rest are economy class seats.

There are 156 seats in the airplane. Find the number of economy class seats.



Method 1

Method 2