

Fourth Grade
Answer Key
Unit 8: Data &
Financial Literacy

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Problem of the Day

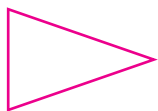
Lesson 1

Mrs. Robertson drew a quadrilateral on the board that had one set of parallel lines, but no sides of equal length. What shape did Mrs. Robertson draw?

- A.** trapezoid
- B.** rhombus
- C.** rectangle
- D.** parallelogram

Lesson 2

Draw an example of a scalene triangle.



Draw an example of an isosceles triangle.



Lesson 3

Examine the table below. What is the frequency of the color green?

FAVORITE COLORS			
yellow	red	green	black
blue	red	yellow	red
black	blue	green	blue

Answer: 2

Lesson 4

Examine the table below.

FAVORITE PET				
cat	dog	cat	bird	dog
cat	cat	dog	dog	bird
dog	dog	bird	dog	cat
dog	bird	bird	cat	dog

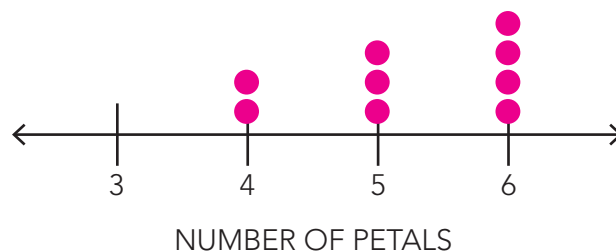
Complete the frequency table below.

FAVORITE PET		
PET	TALLY	FREQUENCY
cat		5
dog		10
bird		5

Lesson 5

Examine the table below and use the data to create a dot plot.

PETALS ON DAISIES					
DAISY	NUMBER OF PETALS	DAISY	NUMBER OF PETALS	DAISY	NUMBER OF PETALS
A	5	D	5	G	4
B	6	E	6	H	5
C	4	F	6	I	6



Problem of the Day

Lesson 6

Use the dot plot from Lesson 5:

- How many daisies have 5 or more petals?

Answer: 7

- How many more daisies have 4 and 6 petals than 5 petals?

Answer: 3

Lesson 7

Using the numbers below, create a stem and leaf plot.

6, 8, 10, 12, 3, 8, 12, 15, 18, 10, 13, 6, 2, 10

STEM	LEAF
0	2, 3, 6, 6, 8, 8
1	0, 0, 0, 2, 2, 3, 5, 8

KEY: 1|0 = 10

Lesson 8

Using the stem and leaf plot below, write out all the numbers.

STEM	LEAF
2	4, 7, 9, 9
3	0, 0, 3, 5, 6, 9

KEY: 3|0 = 30

Numbers: **24, 27, 29, 29, 30, 30,**
33, 35, 36, 39

Lesson 9

STUDENTS FROM EACH CAMPUS

STEM	LEAF
0	4, 6, 8, 9
1	0, 0, 3, 4, 7
2	0, 0, 0, 0, 4
3	2, 2, 5, 7
4	0, 0, 8, 8, 9, 9

KEY: 2|0 = 20

Using the stem and leaf plot above, how many campuses were polled for their number of students?

Answer: 24 campuses

Lesson 10

Use the stem and leaf plot from Lesson 9 to answer the following questions.

- How many campuses had 20 or more students?

15 campuses

- How many campuses had 0–19 students?

9 campuses

- How many campuses had 40 or more students?

6 campuses

Problem of the Day

Lesson 11

Create your own frequency table.

Answers will vary.

Lesson 12

Using the data you wrote in your frequency table in Lesson 11, create a dot plot.

Answers will vary.



Lesson 13

Create two questions about your dot plot from Lesson 12 and answer them. **Answers will vary.**

1.

Answer: _____

2.

Answer: _____

Lesson 14

Trenton spent \$45.00 on his first gas fill up, \$52.99 on this second gas fill up, and \$49.65 on his third gas fill up. How much money did Trenton spend on all three gas fill ups?

Answer: **\$147.64**

Lesson 15

Carson earned \$150.75 trimming trees. He wants to buy a helmet for \$55.55 and new sneakers for \$75.99. How much money will Carson have remaining after he buys the helmet and shoes?

Answer: **\$19.21**

Problem of the Day

Answers will vary.

Lesson 16

Write three types of fixed expenses:

rent

taxes

car payment

Write down three types of variable expenses:

groceries

clothing

entertainment

Lesson 17

Drew had \$115.70 in his bank account. He made a purchase for \$89.45 with his debit card. How much money does Drew have remaining in his account?

Answer: \$26.25

Lesson 18

Xavier made a TV stand and sold it for \$250.00. If he had to spend \$40.95 on supplies, how much profit did Xavier make?

Answer: \$209.05

Lesson 19

Jackie went to the store and purchased \$30.35 in art supplies. She made a painting that sold for \$485.25. How much of a profit did Jackie make on her painting?

Answer: \$454.90

Lesson 20

Marcus had \$909.65 in his bank account. He withdrew \$300.25 for new clothes. He then deposited \$143.75 into his account. How much money is in Marcus' bank account now?

Answer: \$753.15

Pre-Assessment

Examine the data below to analyze and complete the table.

FAVORITE SEASON				
fall	spring	spring	summer	winter
fall	fall	summer	summer	winter
winter	spring	summer	spring	spring
winter	fall	fall	winter	winter
fall	spring	summer	summer	fall

FAVORITE SEASON		
SEASON	TALLY	FREQUENCY
spring		6
summer		6
fall		7
winter		6

1. How many people answered the survey?

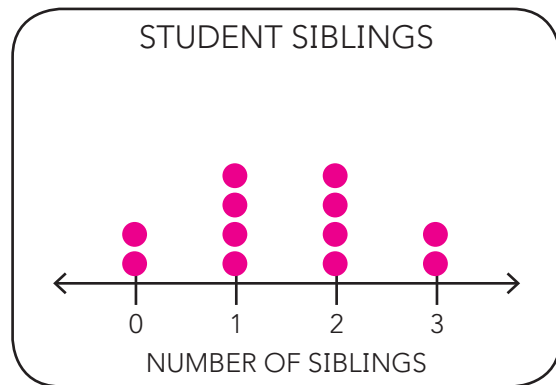
25 people

2. Which season was the most popular?

fall

Examine the data below to analyze and complete the dot plot.

STUDENT SIBLINGS					
STUDENT	NUMBER OF SIBLINGS	STUDENT	NUMBER OF SIBLINGS	STUDENT	NUMBER OF SIBLINGS
A	2	E	2	I	0
B	3	F	2	J	3
C	0	G	1	K	2
D	1	H	1	L	1



3. What number of siblings is the least frequent?

0 and 2 siblings

4. What is the total number of students who have 1 and 2 siblings?






8 students

5. How many more students have 2 siblings than 0 siblings?

2 more students

Frequency Table

FAVORITE PET					
cat	dog	bird	cat	bird	dog
fish	cat	bird	dog	cat	dog
dog	fish	dog	hamster	dog	hamster
hamster	cat	bird	hamster	bird	dog
bird	fish	dog	cat	cat	cat

FAVORITE PET		
KIND OF PET	TALLIES	FREQUENCY
cat		8
fish		3
dog		9
hamster		4
bird		6

1. Complete the frequency table.
2. How many people answered the pet survey?

Answer: 30 people

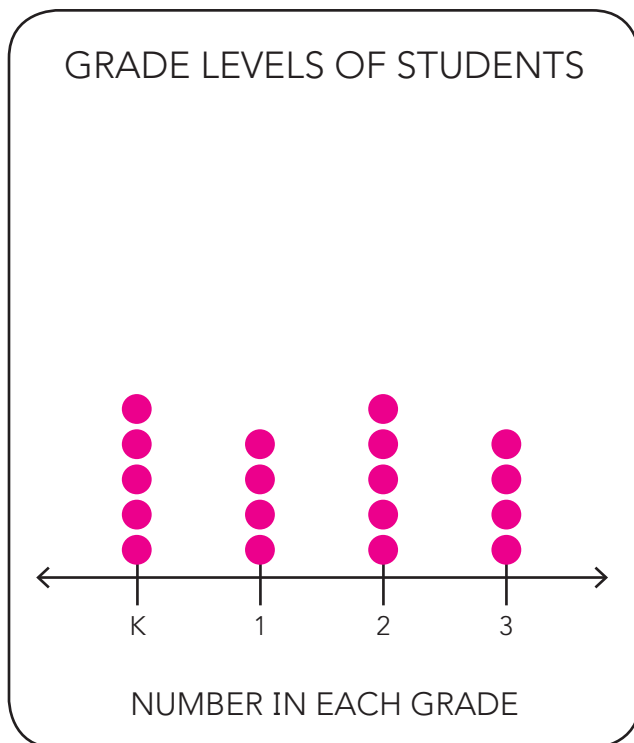
3. Which pet was chosen the most often and least often?

Most: dog

Least: fish

Dot Plot

GRADE LEVELS OF STUDENTS					
STUDENT	GRADE	STUDENT	GRADE	STUDENT	GRADE
A	kinder	G	second	M	first
B	first	H	second	N	first
C	third	I	second	O	kinder
D	kinder	J	third	P	third
E	third	K	kinder	Q	kinder
F	second	L	first	R	second



- Complete the dot plot.
- How many dots represent the students in second and third grade?
- Which grades had the most and least number of students?

Answer: 5

Most: kindergarten, second

Least: first, third

Stem and Leaf Plot

DONUTS SOLD PER PURCHASE	<p>24, 20, 12, 1, 4, 6, 2, 20, 12, 24, 12, 12, 12, 10, 2, 1, 1, 1, 4, 10, 24, 24, 12, 12, 1</p>
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DONUTS SOLD PER PURCHASE

STEM	LEAF
0	1, 1, 1, 1, 1, 2, 2, 4, 4, 6
1	0, 0, 2, 2, 2, 2, 2, 2, 2
2	0, 0, 4, 4, 4, 4

KEY: 2 | 0 = 20

- How many purchases were tracked?
25 purchases
- How many times were 10 or more donuts purchased?
15 times
- How many more times were 24 donuts purchased than 6 donuts?
3 more times

Representing Data Quiz

Examine the data below and create a frequency table.

FAVORITE FOOD			
pasta	pizza	hot dog	burger
pasta	pizza	hot dog	pasta
burger	pasta	pizza	pasta
pasta	burger	burger	burger
hot dog	pasta	pasta	pasta
pizza	pizza	pizza	hot dog
burger	pizza	pizza	pasta

FAVORITE FOOD		
FOOD	TALLY	FREQUENCY
burger		6
hot dog		4
pasta		10
pizza		8

1. How many people answered the survey?

28 people

2. Which food is least popular?

hot dog

3. Which food is most popular?

pasta

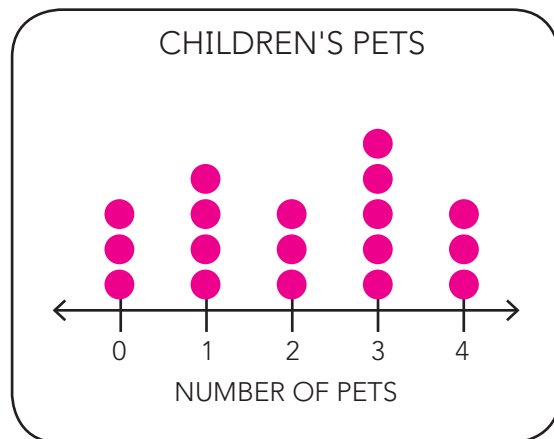
4. Which two foods have a total of 10 votes altogether?

burger hot dog

Representing Data Quiz (cont.)

Examine the data below and create a dot plot.

CHILDREN'S PETS					
CHILD	NUMBER OF PETS	CHILD	NUMBER OF PETS	CHILD	NUMBER OF PETS
A	2	G	1	M	0
B	3	H	3	N	0
C	4	I	3	O	1
D	1	J	2	P	2
E	0	K	4	Q	3
F	1	L	4	R	3



5. Which number of pets is least frequent?
0, 3, 4
6. How many children have 2 or 4 pets?
6 children
7. Which number of pets is most frequent?
3
8. How many more children have 3 pets than 0 pets?
2 more children

The Tutorial Academy collected data on the ages of the students being tutored. Create a stem and leaf plot to represent the data.

AGES OF STUDENTS
8, 10, 12, 9, 21, 24, 13, 17, 18, 22, 10, 9, 7, 12, 14, 13, 12, 18, 17, 16, 20

AGES OF STUDENTS

STEM	LEAF
0	7, 8, 9, 9
1	0, 0, 2, 2, 2, 3, 3, 4, 6, 7, 7, 8, 8
2	0, 1, 2

KEY: **1 | 3 = 13**

9. How many ages were recorded?
21 ages
10. How many students who receive tutoring are 19 or older?
3 students
11. How many more students between the ages of 10 and 19 receive tutoring services compared to students who are younger than 10?
9 more students
12. How many students who receive tutoring are between the ages 10 and 24?
16 students

Analyzing Data Quiz

1. The table below represents the number of cans collected by the 4th grade students at Hardbarger Elementary.

CANS COLLECTED						
15	29	33	42	31	22	20
9	20	18	31	18	30	10
14	34	16	28	31	24	17

Which choice below represents part of the stem and leaf plot representing the data?

A. CANS COLLECTED

STEM	LEAF
2	0, 0, 2, 4, 8, 9

KEY: 2|4 = 24

B. CANS COLLECTED

STEM	LEAF
0	1, 9

KEY: 0|9 = 9

C. CANS COLLECTED

STEM	LEAF
2	0, 2, 4, 8, 9, 9

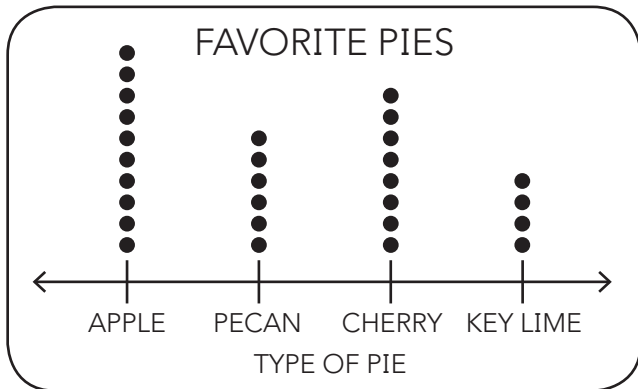
KEY: 2|4 = 24

D. CANS COLLECTED

STEM	LEAF
1	1, 4, 5, 6, 8

KEY: 1|5 = 15

Numbers 2–5, use the dot plot to create the frequency table and answer the questions.



FAVORITE PIES		
PIE	TALLY	FREQUENCY
Apple		10
Pecan		6
Cherry		8
Key Lime		4

2. How many people chose apple pie over key lime pie?

6 more people

4. How many people chose their favorite type of pie?

28 people

3. How many people chose pecan and cherry pie in all?

14 people

5. How many more people chose pecan and apple pie than cherry pie?

8 more people

Analyzing Data Quiz (cont.)

Numbers 6–9, use the table below.

FAVORITE SPORT			
tennis	baseball	swimming	volleyball
volleyball	tennis	baseball	swimming
swimming	basketball	volleyball	swimming
volleyball	tennis	basketball	volleyball
baseball	volleyball	tennis	baseball
tennis	baseball	volleyball	basketball
volleyball	basketball	swimming	basketball

6. Use the data above to create the frequency table below.

FAVORITE SPORT		
SPORT	TALLY	FREQUENCY
tennis		5
baseball		5
basketball		5
swimming		6
volleyball		7

7. How many people voted for their favorite sport?

28 people

8. How many people chose basketball, tennis, and swimming in all?

16 people

9. How many more people chose tennis and baseball over volleyball?

3 more people

Pre-Assessment

Read the problems below and solve.

- Jaxon purchased a new video game for \$66.99. If he had \$75.00 to spend, how much money did he have remaining?
A. \$8.01
B. \$8.10
C. \$8.11
D. \$8.21
- Madison earned \$600 babysitting. She wants to buy a phone that costs \$775.99. How much more money does Madison need to earn to buy the phone?
A. \$150.99
B. \$155.99
C. \$165.99
D. \$175.99
- Thomas had \$545.00 in his bank account. He took out \$155.75 for a new bike. What is the action called when someone removes funds from an account?
A. deposit
B. withdrawal
C. investment
D. interest
- Dean has \$556.75 in his college savings account. He earned \$10.11 in interest. How much does Dean have in his account now?
A. \$546.64
B. \$555.66
C. \$566.86
D. \$570.86
- Harry deposited \$450.50 into his bank account. The account had \$2,945.75 before the deposit. How much money was in Harry's bank account after the deposit?
A. \$2,495.25
B. \$3,396.25
C. \$3,446.25
D. \$3,496.25

Defining Expenses

TYPES OF EXPENSES

A fixed
expense is one that does
not change.

A variable
expense is one that does
change over time.

FIXED EXPENSES

Sample answers:
mortgage, car payment

VARIABLE EXPENSES

Sample answers: groceries,
medical emergencies

Features of a Bank

Answers will vary.

LOAN

A loan is money that is **borrowed** and must be paid back with **interest** .

INTEREST

Interest is an amount of money paid back at a **fixed** rate for the use of **borrowed** money.

DEBIT CARD

A debit card **slot** lets the user **spend** money electronically from a bank account.

CREDIT CARD

A credit card is a plastic card **provided** by a bank or business that lets the user **buy** goods or services on **site** and pay for them later.

CREDIT UNION

A credit union is made up by members who can **borrow** money from their collected savings at **low** interest rates.

Personal Financial Literacy Quiz

Use the word bank below to identify the missing terms in each statement.

WORD BANK	fixed expense	debit card	withdrawal
	deposit	variable expenses	profit

- Rent is considered a **fixed expense**.
- A **withdrawal** is when a person takes money out of their account.
- A **debit card** is used to purchase goods or services and the money is taken out immediately from a bank account.
- A **profit** is the money that a person earns after all expenses have been paid.
- Shopping trips and vacations are considered **variable expenses**.
- A **deposit** is when a person puts money into their bank accounts.

Solve each problem below.

- Ellie earned \$47.90 babysitting. She purchased a new game to play with the children for whom she babysat for \$10.99. How much profit did Ellie earn from babysitting?
 - \$34.74
 - \$36.01
 - \$36.91**
 - \$38.74
- Liam went to the store and spent \$32.50 on a jacket, \$45.99 on a pair of shoes, and \$12.00 on new socks. How much money did Liam spend at the store?
 - \$57.99
 - \$78.49
 - \$88.59
 - \$90.49**
- Tyler spent \$755.50 on his rent, \$230 on insurance, and \$220 on a car payment. What types of expenses are these?
 - Fixed expenses**
 - Deposit expenses
 - Variable expenses
 - Interest expenses
- Melissa had \$455.75 in her college savings account. She earned \$9.45 in interest and then made a withdrawal of \$20.50. How much does Melissa have in her account?
 - \$435.25
 - \$444.70**
 - \$446.30
 - \$465.20

Assessment

Use the word bank below to identify the missing terms in each statement.

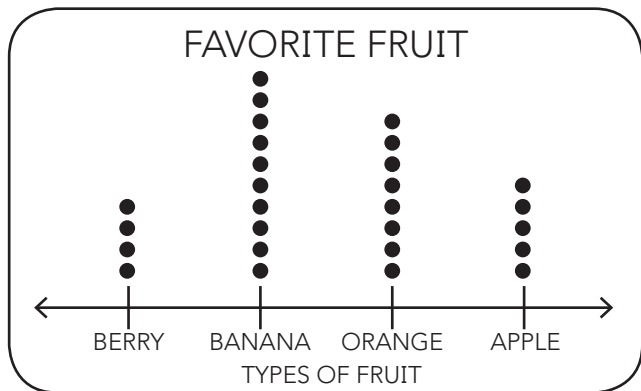
WORD BANK	interest	debit card	withdrawal	loans
	deposit	expenses	profit	credit card

- Rent and groceries are considered **expenses**.
- The money paid back at a regular rate after borrowing is called **interest**.
- A **debit card** is used to purchase goods or services and the money is taken out immediately from a bank account.
- A **withdrawal** is when a person takes money out of their account.
- loans** are when money is borrowed and paid back at a later time with interest.
- A **credit card** is a plastic card issued by a bank or company that allows a person to purchase goods or services and pay later.
- A **deposit** is when a person puts money into their bank accounts.
- profit** is the money that a person earns after all expenses have been paid.

Solve each problem below.

9. Rebecca earned \$500 after a month of working at a daycare. Before starting the job, she had to purchase the required uniform for \$45.85. How much profit did Rebecca make after working one month?
- A. \$444.15
 - B. \$445.15
 - C. \$454.15
 - D. \$455.15
10. Betsy went to the store and purchased two new swimsuits for \$55.00 each. Then she purchased a new swim cap for \$19.99 and new goggles for \$25.50. How much money did Betsy spend at the store?
- A. \$74.99
 - B. \$100.49
 - C. \$135.50
 - D. \$155.49
11. Vicky had to pay \$899 on rent, \$155 on her car payment, and \$200 on insurance. She then spent \$200 on her groceries for the month and \$59.99 on some new clothes. How much more money did Vicky spend on fixed expenses than variable expenses?
- A. \$794.01
 - B. \$994.01
 - C. \$1014.01
 - D. \$1074.01
12. Lauren earned \$300 dog sitting for her neighbors. She wanted to save half of the money for her college account. If she owes her brother \$32 dollars and her friend \$60, how much money will Lauren have left over?
- A. \$58
 - B. \$90
 - C. \$118
 - D. \$208
13. Spencer had \$450.58 in his savings account. He earned \$12.09 in interest. Then Spencer withdrew \$25.99 for a new cap. How much money does Spencer have in his account after the withdrawal?
- A. \$414.84
 - B. \$424.59
 - C. \$436.68
 - D. \$462.67
14. Jamie had \$375.90 in his bank account. He withdrew \$48.99 from the account and then deposited \$124.50 into the account. How much money does Jamie have in his bank account?
- A. \$300.39
 - B. \$326.91
 - C. \$451.41
 - D. \$500.40

For numbers 15–17, use the dot plot to create the frequency table and answer the questions.



FAVORITE FRUIT		
FRUIT	TALLY	FREQUENCY
Berry		4
Banana		10
Orange		8
Apple		5

15. How many people chose apples and oranges over bananas?

5 people

16. How many more people chose bananas over berries?

6 more people

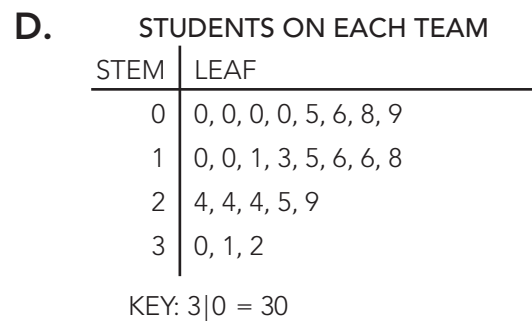
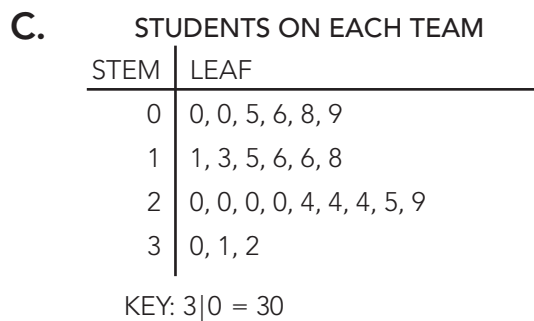
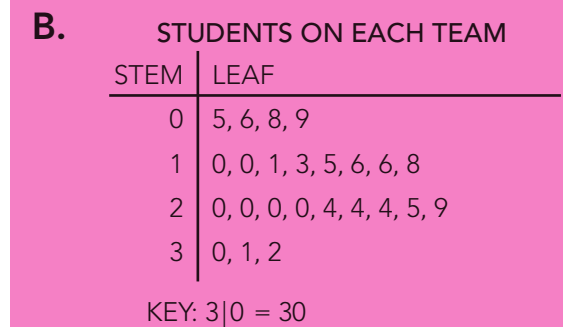
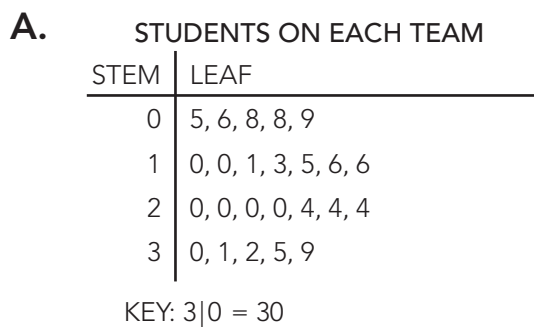
17. How many people were polled for their favorite type of fruit?

27 people

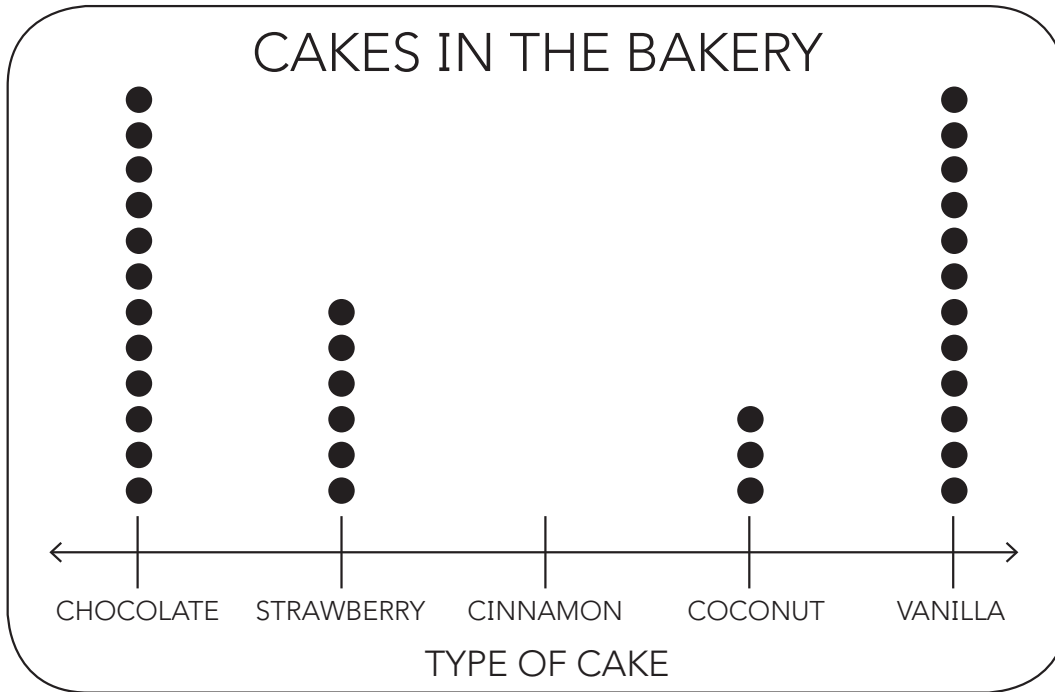
18. Twenty-four schools entered the district track meet. Below is the number of students on each team.

STUDENTS ON EACH TEAM					
11	13	20	32	10	8
6	9	20	30	25	24
31	29	20	24	24	15
18	16	20	10	5	16

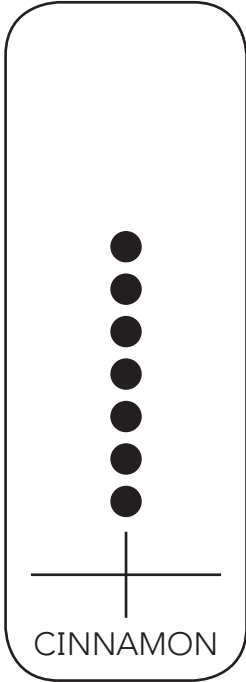
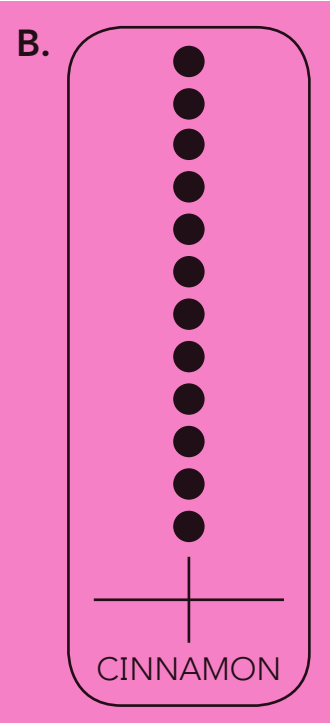
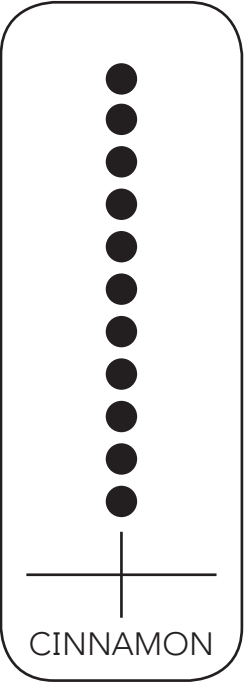
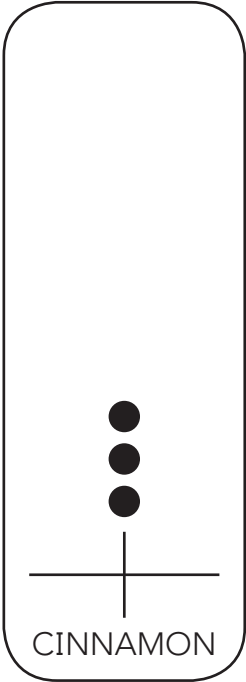
Which stem and leaf plot represents the data above?



19. Shelly's Bakery has a total of 45 cakes on the shelves. The dot plot below shows the number of chocolate, strawberry, vanilla, and coconut cakes in the bakery.



Which of the following shows the number of cinnamon cakes in Shelly's bakery?

- A. 
- B. 
- C. 
- D. 

Use the data to complete the table and answer the questions.

FAVORITE COLOR				
blue	red	pink	green	green
blue	yellow	red	yellow	yellow
green	blue	green	red	yellow
red	green	green	blue	blue
yellow	pink	green	green	pink
red	yellow	blue	green	yellow

FAVORITE COLOR		
Color	Tally	Frequency
blue		6
red		5
yellow		7
green		9
pink		3

How many people answered the survey?

30 people

Which color is the most popular?

green

Which color is least popular?

pink

Which two colors got a combined vote of 9?

blue and pink

Use the data to complete the table and answer the questions.

FAVORITE SUBJECT				
math	reading	science	writing	math
math	math	writing	science	math
writing	math	science	math	reading
math	reading	reading	science	science

FAVORITE SUBJECT		
Subject	Tally	Frequency
math		8
writing		3
reading		4
science		5

Which subject is the least popular?

writing

What subject is the most popular?

math

How many people are represented in this survey?

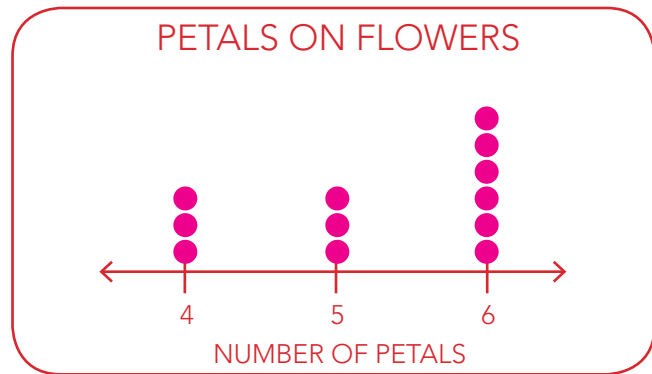
20 people

How many more people like math than science?

3 more people

Use the data to complete the dot plot and answer the questions.

PETALS ON FLOWERS					
Flower	Number of Petals	Flower	Number of Petals	Flower	Number of Petals
A	6	E	6	I	6
B	5	F	4	J	5
C	6	G	5	K	6
D	4	H	4	L	6



How many flowers were examined?

12 flowers

Which number of petals occurs least often?

4 and 5 petals

What number of petals occurs most often?

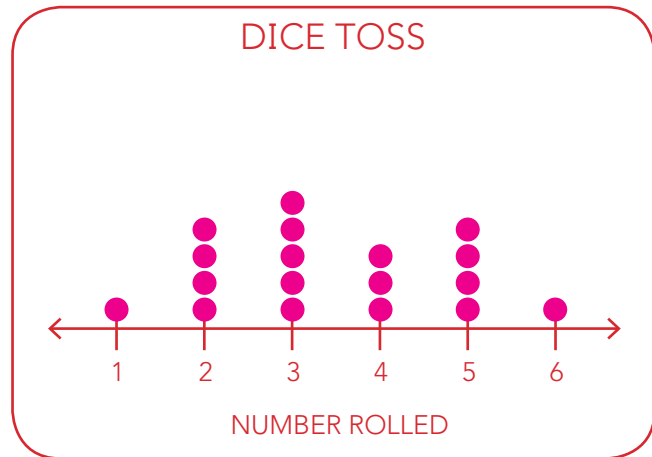
6 petals

Which two numbers of petals have the highest counts?

6 and 4

Use the data to complete the dot plot and answer the questions.

DICE TOSS					
Toss	Number Rolled	Toss	Number Rolled	Toss	Number Rolled
A	3	G	4	M	3
B	3	H	3	N	4
C	5	I	2	O	2
D	5	J	6	P	2
E	3	K	5	Q	5
F	1	L	2	R	4



What number was rolled the least?

1 and 6

What number was rolled the most?

3

Which two numbers were rolled a total of 8 times?

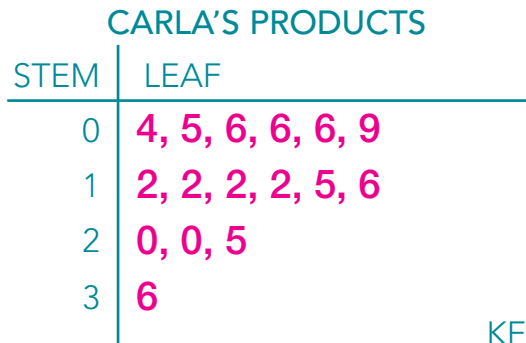
2 and 5, or 3 and 4

How many times did 4 and 6 get rolled in all?

4 times

Carla rolled two dice and multiplied the numbers to find their product. Create a stem and leaf plot to represent her data.

CARLA'S PRODUCTS	12, 6, 15, 20, 12, 36, 6, 16, 9, 20, 12, 6, 25, 4, 5, 12
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KEY: 3|6 = 36

How many products did Carla make?

16 products

How many more products of 20 were there than 4?

1 more product

How many products were exactly 12?

4 products

How many products of 6 and 20 did Carla make in all?

5 products

Dranton Elementary School recorded how many students were in each class. Create a stem and leaf plot to represent the data.

STUDENTS IN EACH CLASS	
	12, 9, 21, 19, 18, 17,
	22, 20, 23, 25, 8,
	20, 19, 20, 18, 22,
	25, 20, 22, 19

STUDENTS IN EACH CLASS	
STEM	LEAF
0	8, 9
1	2, 7, 8, 8, 9, 9, 9
2	0, 0, 0, 0, 1, 2, 2, 2, 3, 5, 5

KEY: 2|0 = 20

How many class totals were included?

20 classes

What is the total number of classes that have 17 or 18 students?

3 classes

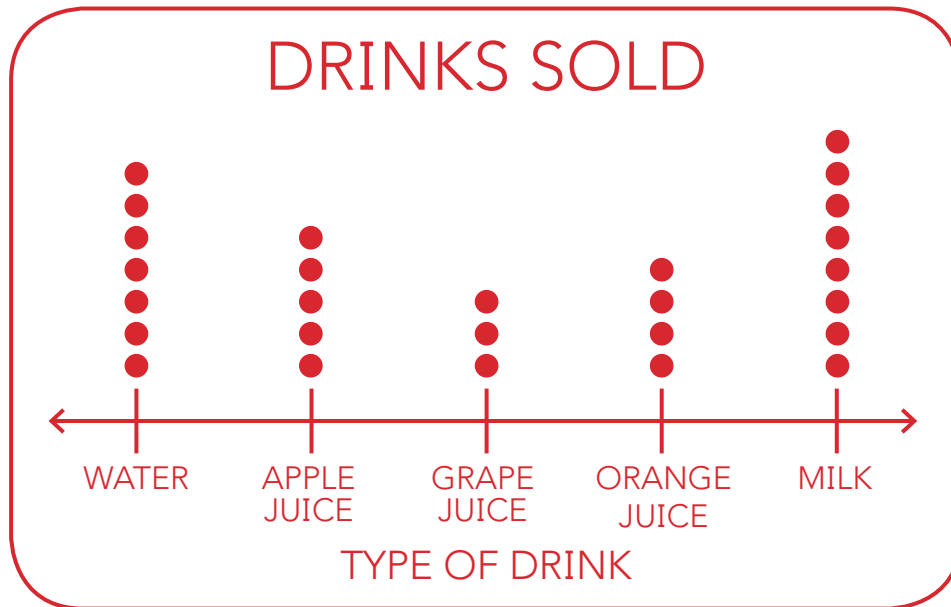
How many classes have at least 20 students?

11 classes

How many more classes have 20 students than 19 students?

7 classes

Mark created a dot plot to represent how many drinks were sold at his concession stand.



Which frequency table below represents the data correctly?

A.

DRINKS SOLD		
Drink	Tally	Frequency
Water		7
Apple Juice		4
Grape Juice		3
Orange Juice		4
Milk		7

B.

DRINKS SOLD		
Drink	Tally	Frequency
Water		7
Apple Juice		5
Grape Juice		3
Orange Juice		4
Milk		8

C.

DRINKS SOLD		
Drink	Tally	Frequency
Water		7
Apple Juice		5
Grape Juice		3
Orange Juice		4
Milk		8

D.

DRINKS SOLD		
Drink	Tally	Frequency
Water		8
Apple Juice		5
Grape Juice		4
Orange Juice		3
Milk		7

Twenty schools entered the Academic Tournament. Below is a number of students on each team.

STUDENTS ON EACH TEAM				
15	9	23	40	35
19	21	8	11	13
20	22	26	9	30
29	28	44	18	20

Which stem and leaf represents the data correctly?

A.

STUDENTS ON EACH TEAM

STEM	LEAF
0	8, 9, 9
1	1, 3, 5, 8, 9
2	0, 0, 1, 2, 3, 6
3	0, 5, 8, 9
4	0, 0, 4

KEY: 4|4 = 44

B.

STUDENTS ON EACH TEAM

STEM	LEAF
0	8, 9, 9
1	1, 3, 5, 8, 9
2	0, 0, 1, 2, 3, 6, 8, 9
3	0, 5
4	0, 4

KEY: 4|4 = 44

C.

STUDENTS ON EACH TEAM

STEM	LEAF
0	8, 9
1	0, 0, 1, 3, 5, 8, 9
2	0, 0, 1, 2, 3, 6, 8, 9
3	0, 5, 9
4	0, 4

KEY: 4|4 = 44

D.

STUDENTS ON EACH TEAM

STEM	LEAF
0	8, 8, 9
1	1, 3, 5, 8, 9
2	0, 0, 1, 2, 3, 6, 8, 8
3	0, 0, 5
4	0, 4

KEY: 4|4 = 44

The stem and leaf plot shows the ages of people in a movie theater.

AGES OF PEOPLE IN THE THEATER

STEM	LEAF
0	7, 8, 9, 9
1	1, 3, 5
2	0, 0, 1, 2, 3, 6
3	0, 0, 2, 3
4	1, 1, 4, 4
5	1, 2, 3

Which frequency table below represents the data correctly?

A.

AGES OF PEOPLE IN THE THEATER		
Age Group	Tally	Frequency
0–9		3
10–19		4
20–29		6
30–39		4
40–49		4
50–69		3

B.

AGES OF PEOPLE IN THE THEATER		
Age Group	Tally	Frequency
0–9		4
10–19		3
20–29		6
30–39		4
40–49		3
50–69		4

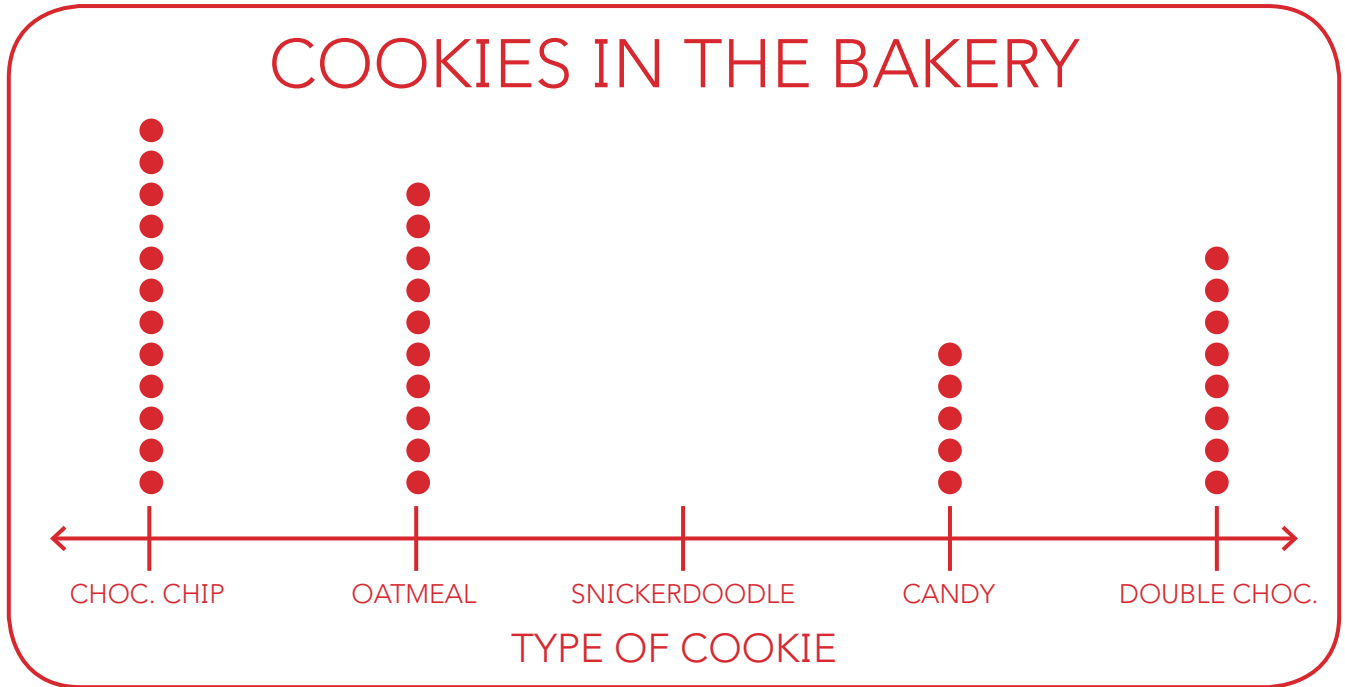
C.

AGES OF PEOPLE IN THE THEATER		
Age Group	Tally	Frequency
0–9		4
10–19		4
20–29		6
30–39		3
40–49		4
50–69		3

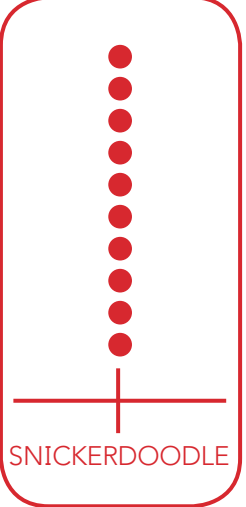
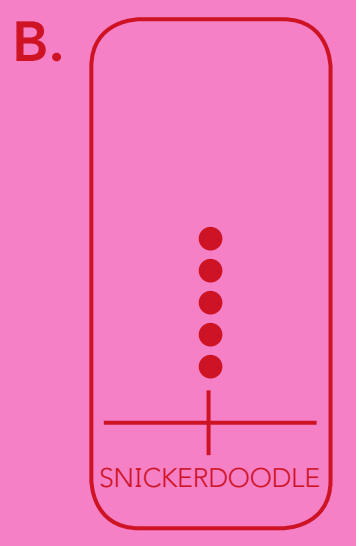
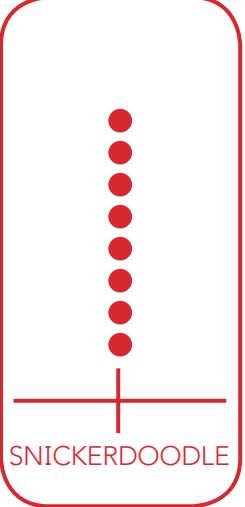
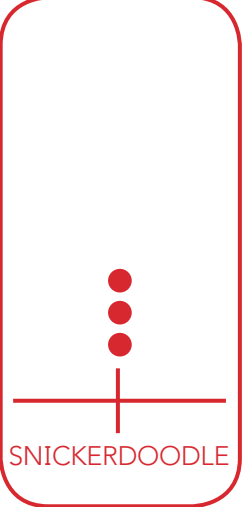
D.

AGES OF PEOPLE IN THE THEATER		
Age Group	Tally	Frequency
0–9		4
10–19		3
20–29		6
30–39		4
40–49		4
50–69		3

Martin's Bakery has a total of 40 cookies. The dot plot below shows the number of chocolate chip, oatmeal, candy, and double chocolate.



Which of the following shows the number of snickerdoodle cookies that are in Martin's bakery?

- A. 
- B. 
- C. 
- D. 

Create your own frequency table to represent the data in table.

FAVORITE DESSERT		
Dessert	Tally	Frequency
cookie		10
cake		8
brownie		6
ice cream		6

How many people chose cookies or ice cream as their favorite dessert?

16 people

How many more people chose cake over brownies?

2 people

How many people chose their favorite dessert?

30 people

Create your own frequency table to represent the data in dot plot.

PETS IN THE STORE		
Pet	Tally	Frequency
dogs		10
cats		5
hamsters		7
lizards		7
snakes		3

What is the total number of snakes, hamsters, and lizards in the store?

17

How many more lizards are in the store than cats?

2 lizards

How many pets are in the pet store?

32 pets

Create your own frequency table to represent the data from the stem and leaf plot.

WEIGHT OF DOGS		
Pet	Tally	Frequency
0–9 pounds		3
10–19 pounds		2
20–29 pounds		7
30–39 pounds		4
40–49 pounds		5
50–59 pounds		3

How many more dogs weigh between 20–29 pounds than 0–9 pounds?

4 dogs

How many dogs weigh more than 9 pounds?

21 dogs

How many dogs' weights were collected?

24 dogs

Jake earned \$52.50 for raking leaves. He spent \$32.00 on a jacket and \$8.99 on a movie ticket. How much money does Jake have remaining?

Answer: \$11.51

Kylie purchased a new hat for \$13.50, a new pair of sunglasses for \$12.99, and a new purse for \$45.00. What is the total amount of money that Kylie spent?

Answer: \$71.49

Martin purchased a new computer for \$499.99. He also purchased a case for \$102.50. How much did he spend in all?

Answer: \$602.49

Gina purchased three different pairs of shoes. Each pair of shoes cost \$49.50. If she had \$200 to spend, how much money did she have left over?

Answer: \$51.50

Brent spent \$102.36 on groceries for one week, \$89.75 the next week, and \$120.99 the third week. How much money did Brent spend on groceries for all three weeks?

Answer: **\$313.10**

Natalie saved her babysitting money for one month. She had \$43.00 at the end of the month. Natalie decided to spend \$29.99 on a new bike helmet. How much money does Natalie have left?

Answer: \$13.01

Max went to the store to purchase a jacket for \$45.85, a new shirt for \$25.70, a tie for \$12.50, and a new pair of shoes for \$87.20. How much money did Max spend at the store?

Answer: **\$171.25**

Kendall purchased a dress for \$55.55. She purchased matching shoes for \$65.90 and earrings for \$34.65. If Kendall had \$175.75 to spend, how much money did she have left?

Answer: **\$19.65**

Jenna babysat for 4 nights, earning \$50 each night. If she wants to buy a scooter for \$435, how much more money does she need to save?

Answer: **\$235**

Last month, Sally made \$65 working at the local craft store. She had to repay her brother for buying a phone case for \$15. She wants to buy a new video game for \$50. Does she have enough money to buy the game? If so, how much money will she have remaining after buying the game? If not, how much more money does she need to save?

Sample answer: She has enough money
Answer: to buy the game. She will have \$0 leftover.

Ali wants to buy a new dollhouse that will cost \$375. If she saves \$45 a week for 16 weeks, how much money will she have left over once she purchases the dollhouse?

Answer: **\$345**

Gary saved \$20 each month for 15 months. How much money did Gary save? If he spends \$120.75 on parts for a go-kart, how much money will Gary have left?

Answer: **\$179.25**

Laura wants to buy a new puppy at the pet store. The dog costs \$325.90. She has \$400 in her bank account, but needs to save \$50 for gas. How much money does Laura have left to spend on her puppy?

Sample answer: If Laura buys the dog,
Answer: she will have \$24.10.

Trevor saved \$222. He owed his parents \$45 and wants to purchase a new football for \$25.75. How much money will Trevor have left over after he pays his parents back and buys his football?

Answer: **\$151.25**

Use the word bank below to sort the expenses into the correct side of the T-chart.

WORD BANK	Rent	Shopping at mall	Car payment	Movie tickets	Magazine subscription
	Grocery shopping	Planning a vacation	ER visit	Car repair	Concert tickets
	Gym membership	Internet bill	Buying a bike	Dinner at a restaurant	Buying a new TV

FIXED EXPENSES	VARIABLE EXPENSES
<p>Rent Car payment Magazine subscription Gym membership Internet bill</p>	<p>Shopping at mall Movie tickets Grocery shopping Planning a vacation ER visit Car repair Concert tickets Buying a bike Dinner at a restaurant Buying a new TV</p>

Shelby earned \$2,500 a month. If her rent is \$850 and her car payment is \$220, how much money does Shelby spend on fixed expenses?

Answer: \$1,070

Kayden earns \$4,000 every month. He wants to spend \$1,200 on a vacation, but needs to pay his \$2,200 mortgage and \$500 car insurance. How much money will Kayden spend on his fixed and variable expenses if he pays his bills and takes the vacation?

Answer: \$100

Mandy determined that her fixed expenses each month are \$990 for rent, \$200 for insurance, and \$300 for other bills. If Mandy makes \$4,900 a month, how much is left over to spend on variable expenses?

Answer: \$3,410

Greg earns \$3,000 every month. He spends \$1,500 on fixed expenses. Last month, he used his remaining money to pay for his \$399 car repairs and \$450 on a new TV. How much more money did Greg spend on fixed expenses than variable expenses?

Answer: \$651

Blaire earned \$4,500 last month. She paid \$1,000 for rent, \$250 for insurance, and \$1,585 for a vacation. How much money did Blaire spend on her fixed and variable expenses?

Answer: \$2,835

Nathan earned \$3,800 last month. He spent \$2,289 on fixed expenses, such as rent, a car payment, and insurance. How much money did Nathan have remaining to spend on variable expenses?

Answer: \$1,511

Matt had \$278 in his bank account. He made a purchase with his debit card for \$143.95. How much money does Matt have remaining in his account?

Answer: **\$134.05**

Kylie had \$198.75 in her savings account. She earned \$4.75 in interest and made a deposit of \$90.35 into her account. How much money does Kylie have in her account now?

Answer: \$293.85

Alex currently has \$56.85 in her bank account. She deposits a check for \$43.25. How much money does Alex have in her account after the deposit?

Answer: \$100.10

Sophie earned \$8.88 in interest for her savings account. The account had \$65.99 before the interest was added. How much money does Sophie have in the account now?

Answer: \$74.87

Travis deposited \$98.50 into his bank account. If the bank account total is now \$472.10, how much money was in the account before the deposit?

Answer: \$373.60

Meredith had \$182.75 in her bank account. She made two withdrawals of \$45.60 and \$15.00. How much money does Meredith have in her account after the two withdrawals?

Answer: **\$122.15**

Lilly made \$399 by selling bracelets. Her supplies cost \$56.75. How much profit did Lilly make?

Answer: \$342.25

Dominic made a wood table and sold it for \$555.55. The wood, stain, and tools cost him \$121.98. What profit did Dominic make from the wood table?

Answer: \$433.57

Kristen made \$400 waiting tables for a month. Before she started, she had to buy her serving uniform for \$45. How much money did Kristen make after paying her uniform cost?

Answer: **\$355**

Derek raked leaves for 5 neighbors. He earned \$45 from each neighbor. If he spent \$14.75 on bags, how much profit did Derek make from raking the leaves?

Answer: \$30.25

Suzanne made 10 decorative wreaths and sold them each for \$25. She had to pay her mom back \$50 for loaning her the money to purchase the supplies. How much money does Suzanne get to keep as profit?

Answer: \$200

Nick received \$325 for trimming trees in his neighbor's yard. Nick had to purchase a new chain for his chainsaw as well as fuel for a total of \$47.99. How much profit did Nick earn from his tree-trimming job?

Answer: **\$277.01**

Roger had a tutoring business with 20 students. Each student paid \$30. If Roger spent \$24.65 on tutoring supplies, how much profit did he make?

Answer: **\$575.35**

Julie made key chains and sold them at her school's annual craft show. She made \$400 by selling all her key chains. If the supplies cost \$35.70, what was Julie's profit?

Answer: **\$364.30**

Blaine earned \$575 from his lawn business. His expenses for maintaining his equipment and extra supplies was \$85.60. How much profit did Blaine earn?

\$489.40

Classify each of the expenses below.

- grocery shopping
- clothes shopping
- movie tickets
- concert tickets

FIXED EXPENSE	VARIABLE EXPENSE
	<p>grocery shopping clothes shopping movie tickets concert tickets</p>

James earned \$600 giving hiking tours at the nearby parks. He had to buy new hiking boots for \$127.99. What profit did James make from giving the tours?

\$472.01

Marty had \$80.35 in his bank account. He deposited \$32.99 into his account. How much money does Marty have in his account after the deposit?

\$113.34

Sarah earns \$5,000 a month. She spends \$1,300 on rent, \$400 on a car payment, and \$250 on insurance. How much money does Sarah have remaining for variable expenses?

\$3,050

Kevin went to the sporting goods store and purchased a new kayak for \$350.75, a new body suit for \$99.99, and two paddles for \$32 each. How much money did Kevin spend at the sporting goods store?

\$514.74

Classify each of the expenses below.

- rent
- car insurance
- medical insurance

FIXED EXPENSE	VARIABLE EXPENSE
<p>rent car insurance medical insurance</p>	

Rebecca wants to purchase a new bike for \$125.99. She earned \$640.55 babysitting over 3 months. She owes her sister \$90 for a dress she bought. How much money will Rebecca have left after paying back her sister and buying the new bike?

\$424.56

Brenton earned \$4,500 last month. He spent \$1,200 on rent, \$150 on his car payment, and \$200 on insurance. He then spent \$400 shopping for new clothes, \$350 on groceries for the month, and \$90 on gas. How much more money did Brenton spend on his fixed expenses than his variable expenses?

\$710

Mike had \$299 in his bank account. He earned \$5.75 in interest, but then withdrew \$49.50. How much money did Mike have left in his account after the withdrawal?

\$255.25

Jared earned \$400 mowing lawns. He deposited \$300 in his college fund. He used the remaining money to pay his dad back \$23 and fill his car up with gas for \$38.81. How much money does Jared have left over?

\$38.19

Jessie carved and sold wood figurines at his community showcase. He earned \$50 for all the figurines he sold. If his expenses for wood and tools were \$18.50, how much profit did Jessie earn?

\$31.50