

**5th into 6th
Summer Packet**

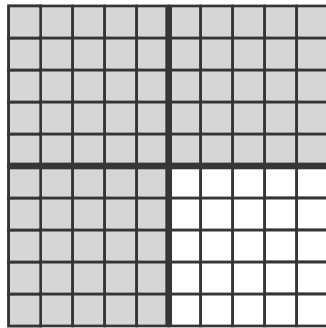
Name _____

Date _____

This section contains 30 multiple-choice questions. Work each problem in the space on this page. Select the best answer. Write the letter of the answer on the blank at the right.

1 What decimal is equivalent to $\frac{3}{4}$?

1 _____



A 0.25

B 0.34

C 0.75

D 1.33

2 Find the product of 6.1 and 4.9.

2 _____

F 7.93

G 11.0

H 29.89

J 30.79

- 3** Look at the table below. Which of the following has NOT been rounded correctly to the nearest hundred?

3 _____

Population in 2005		
City	Exact Population	Estimated Population
Austin	690,252	690,300
Chicago	3,844,829	3,844,800
Seattle	557,087	557,100
St. Louis	912,332	912,330

Source: U.S. Census Bureau

- A** Chicago **C** Seattle
B Austin **D** St. Louis

- 4** The number 13.76 is read as which of the following:

4 _____

- F** thirteen and seventy-six tenths
G thirteen and seventy-six hundredths
H thirteen and seventy-six thousandths
J thirteen thousand and seventy-six

- 5** Raven is asked to check the answer to the multiplication problem below. Which number sentence could she use to check her answer?

5 _____

$$23 \times 452 = 10,396$$

- A** $23 + 452 = 475$ **C** $10,396 \times 23 = 452$
B $452 - 23 = 429$ **D** $10,396 \div 23 = 452$

6 How can you write 10,000,000 using exponents?

F 10^4

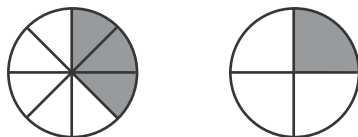
H 10^6

G 10^5

J 10^7

6 _____

7 Inali ate $\frac{3}{8}$ of a pizza. His friend ate $\frac{1}{4}$ of the pizza. How much did they eat all together.



A $\frac{1}{3}$

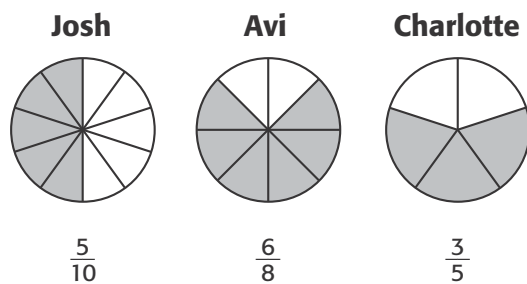
B $\frac{1}{2}$

C $\frac{5}{8}$

D $\frac{3}{4}$

7 _____

8 Josh, Avi, and Charlotte each sold slices of pie at the bake sale. The figures below show how they each cut their pie. The shaded parts represent the pieces they sold. What can you conclude from the data?



F Josh and Avi sold $1\frac{1}{4}$ pies.

G Avi and Charlotte sold $1\frac{1}{2}$ pies.

H Avi and Charlotte each sold the same amount of pie.

J Charlotte and Josh sold $1\frac{3}{10}$ pies.

8 _____

9 Sasha's mom bought a container with 150 bracelet beads for Sasha's birthday party. There were 8 girls at the birthday party to equally share the beads. Between what two amounts of beads should each girl receive?

- A** between 15 and 16
- B** between 16 and 17
- C** between 17 and 18
- D** between 18 and 19

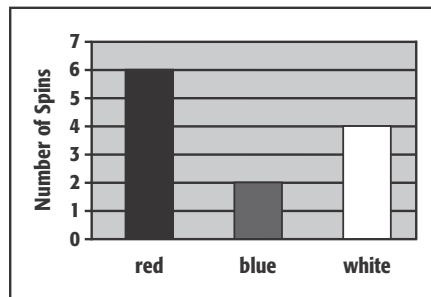
9 _____

10 Which of the following expressions is equal to $\frac{4}{5} \times 7$?

- F** $4 \div 5 + 7$
- G** $4 \times 7 \div 5$
- H** $4 \times 7 \times 5$
- J** $5 \div 4 \times 7$

10 _____

11 Adam spins a spinner 12 times. The results are shown in the bar graph below. Which fraction of the spins were red or blue?

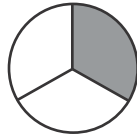


- A** $\frac{2}{3}$
- B** $\frac{3}{4}$
- C** $\frac{7}{12}$
- D** $\frac{5}{6}$

11 _____

- 12** A salsa recipe calls for $\frac{1}{3}$ cup of onions. William wants to multiply the recipe by 4. How many cups of onion will he need?

12 _____



- F** $\frac{3}{4}$ cup **H** $1\frac{1}{3}$ cups
G 1 cup **J** $1\frac{2}{3}$ cups
- 13** The menu below shows the prices at Lunchtime Café. Lucita orders a turkey sandwich and two fruit cups. What expression should she use to determine the cost of her meal?

13 _____

Lunchtime Cafe	
Item	Cost
Turkey Sandwich	\$4.50
Ham Sandwich	\$4.35
Salad	\$2.10
Fruit Cup	\$2.50
Juice	\$1.90

- A** $4.50 + (2 \times 2.50)$ **C** $2.50 + (2 \times 4.50)$
B $4.50 + 2.50$ **D** 2.50×4.50
- 14** Each student in fifth grade donates 4 cans of food to the food bank. There are 285 fifth-grade students. Which of the following shows the number of cans donated and the correct justification for the number?
- F** 71 because 285 divided by 4 is approximately 71
G 289 because 285 plus 4 is 289
H 1,120 because 280 times 4 is 1,120
J 1,140 because 285 times 4 is 1,140

14 _____

15 Mr. Izquierdo is joining a gym. There is a \$150 registration fee and a monthly fee of \$28. Which expression shows the total cost for Mr. Izquierdo to join the gym for a year?

A $(\$150 + \$28) \times 12$

B $\$150 \times (\$28 + 12)$

C $(\$150 \times 12) + \28

D $\$150 + (\$28 \times 12)$

15 _____

16 Each week, Melanie saves the same amount of money. After the third week, she has \$30. After the fifth week, she has \$50. After the seventh week, she has \$70. Which operation could Melanie use to determine the amount she will have saved by the tenth week?

F Add 10 to the number of weeks.

G Add 20 to the numbers of weeks.

H Multiply 10 times the number of weeks.

J Multiply 20 times the number of weeks.

16 _____

17 Carmen created the following table of multiplication facts for 100. If the pattern continues, what is 100×12 ?

#	$\times 100$
1	100
2	200
3	300
4	400
5	500

A 120

B 210

C 1,200

D 2,100

17 _____

20 Tamera is 4 years younger than her brother. Which expression could you use to determine Tamera's age, given her brother's age b ?

F $b + 4$

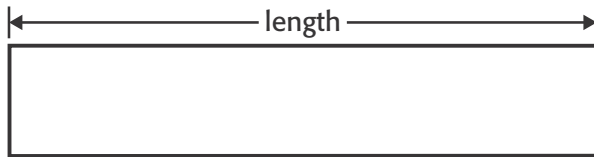
H $b \times 4$

G $b - 4$

J $b \div 4$

20 _____

21 Use a ruler to measure the length of the rectangle below in centimeters. Convert this length to meters.



A 8 m

C 0.08 m

B 0.8 m

D 0.008 m

21 _____

22 There are 12 inches in 1 foot, and there are 3 feet in 1 yard. How many inches are there in 1 yard?

F 12

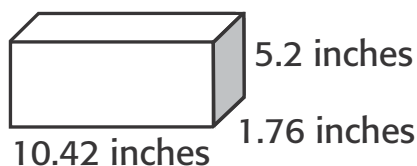
H 36

G 24

J 48

22 _____

23 Megan wants to estimate the volume of the box shown below. Which is the best estimate? ($V = \ell \times w \times h$)



A 50 in^3

C 100 in^3

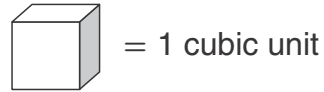
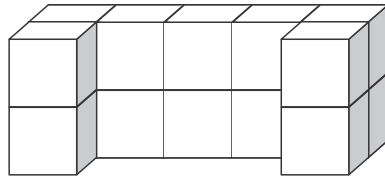
B 60 in^3

D 110 in^3

23 _____

24 What is the volume of the figure?

24 _____



- F 10 cubic units
- G 12 cubic units

- H 14 cubic units
- J 16 cubic units

25 Which of the following is equal to 4 gallons?

25 _____

- A 1 quart
- B 8 quarts

- C 12 quarts
- D 16 quarts

26 A rectangular shoebox is 14 inches long by 8 inches wide by 6 inches tall. What is the volume of the shoebox?

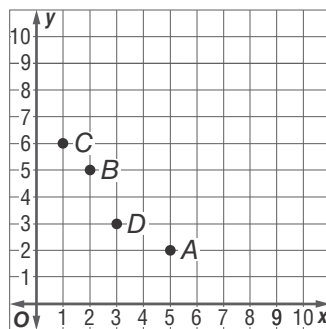
26 _____

- F 28 cubic inches
- G 668 cubic inches

- H 480 cubic inches
- J 672 cubic inches

27 Look at the coordinate grid below. Which point is located at (2, 5)?

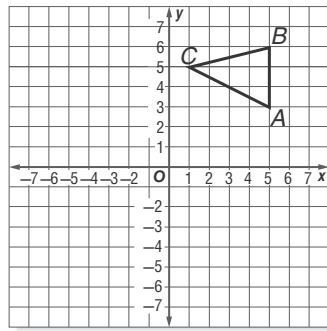
27 _____



- A Point A
- B Point B

- C Point C
- D Point D

28 On the graph below, $\triangle ABC$ is graphed. What is the x-coordinate of point A?



- F** 3
- G** 4

- H** 5
- J** 6

28 _____

29 Which of the following does not describe the figure below?

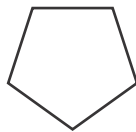


- A** square
- B** rectangle.

- C** quadrilateral
- D** trapezoid

29 _____

30 Which best describes this figure?



- F** pentagon
- G** hexagon

- H** triangle
- J** octagon

30 _____

Order of operations

Grade 5 PEMDAS Worksheet

Solve the following using PEMDAS

The order of operations:

- 1. Parentheses ()*
- 2. Exponents 5^2*
- 3. Multiplication \times or Division \div*
- 4. Addition $+$ or Subtraction $-$*

1. $3 \times 9 + 7$

6. $(67 - 18) \div 7 \times 3$

2. $12 + 36 \div 4$

7. $5^2 - 8$

3. $9 \div 3 + 4 \times 6$

8. $2^3 \times 3^2$

4. $2 \times 11 - 12 \div 2$

9. $4^2 \times (8 - 3)$

5. $8 \times 18 \div 4 + 15$

10. $(7 \times 8 - 4) \div (6 - 2)$

Multiplying 2-Digit by 2-Digit Numbers with Various Decimal Places (A)

Name: _____

Date: _____

Calculate each product.

$$\begin{array}{r} 2.3 \\ \times 4.6 \\ \hline \end{array}$$

$$\begin{array}{r} 0.67 \\ \times 0.50 \\ \hline \end{array}$$

$$\begin{array}{r} 0.27 \\ \times 73 \\ \hline \end{array}$$

$$\begin{array}{r} 2.8 \\ \times 32 \\ \hline \end{array}$$

$$\begin{array}{r} 3.1 \\ \times 94 \\ \hline \end{array}$$

$$\begin{array}{r} 6.5 \\ \times 6.6 \\ \hline \end{array}$$

$$\begin{array}{r} 3.3 \\ \times 0.89 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ \times 48 \\ \hline \end{array}$$

$$\begin{array}{r} 5.4 \\ \times 0.19 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ \times 14 \\ \hline \end{array}$$

$$\begin{array}{r} 5.8 \\ \times 4.3 \\ \hline \end{array}$$

$$\begin{array}{r} 0.46 \\ \times 0.50 \\ \hline \end{array}$$

$$\begin{array}{r} 53 \\ \times 7.8 \\ \hline \end{array}$$

$$\begin{array}{r} 3.0 \\ \times 0.49 \\ \hline \end{array}$$

$$\begin{array}{r} 87 \\ \times 0.21 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ \times 0.12 \\ \hline \end{array}$$

$$\begin{array}{r} 84 \\ \times 18 \\ \hline \end{array}$$

$$\begin{array}{r} 6.7 \\ \times 0.95 \\ \hline \end{array}$$

$$\begin{array}{r} 0.83 \\ \times 8.9 \\ \hline \end{array}$$

$$\begin{array}{r} 1.2 \\ \times 0.54 \\ \hline \end{array}$$

$$\begin{array}{r} 0.13 \\ \times 4.3 \\ \hline \end{array}$$

$$\begin{array}{r} 0.89 \\ \times 0.34 \\ \hline \end{array}$$

$$\begin{array}{r} 0.31 \\ \times 0.93 \\ \hline \end{array}$$

$$\begin{array}{r} 8.1 \\ \times 16 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ \times 0.76 \\ \hline \end{array}$$

Division (A)

Find each quotient.

$$74 \overline{)5476}$$

$$66 \overline{)6270}$$

$$78 \overline{)6708}$$

$$98 \overline{)8624}$$

$$96 \overline{)2112}$$

$$43 \overline{)4085}$$

$$34 \overline{)1870}$$

$$42 \overline{)420}$$

$$83 \overline{)5727}$$

$$77 \overline{)770}$$

$$53 \overline{)848}$$

$$97 \overline{)9603}$$



Long division with decimals

Grade 5 Decimals Worksheet

Find the quotient. Round to the tenths place if necessary.

1. $0.05 \overline{)50}$

2. $0.02 \overline{)83.2}$

3. $0.5 \overline{)586}$

4. $0.02 \overline{)0.73}$

5. $0.07 \overline{)5.85}$

6. $0.05 \overline{)80}$

7. $0.04 \overline{)3.0}$

8. $0.08 \overline{)42}$

9. $0.4 \overline{)573}$

Name: _____ Date: _____

Fractions Worksheet

1 a. $\frac{11}{20} - \frac{3}{8}$

1 b. $\frac{1}{9} + \frac{3}{5} =$

2 a. $\frac{5}{18} - \frac{2}{15}$

2 b. $\frac{1}{8} + \frac{7}{3} =$

3 a. $\frac{2}{5} - \frac{1}{4}$

3 b. $\frac{5}{10} + \frac{1}{6} =$

4 a. $\frac{17}{20} - \frac{7}{16}$

4 b. $\frac{1}{2} + \frac{2}{6} =$

Name: _____ Date: _____

Fractions Worksheet

1 a. $4 \times 5\frac{1}{7} =$

1 b. $2\frac{1}{6} \div \frac{12}{7} =$

2 a. $3\frac{3}{5} \div \frac{1}{5} =$

2 b. $3 \times \frac{4}{6} =$

3 a. $\frac{8}{10} \times 5 =$

3 b. $\frac{5}{8} \div \frac{5}{8} =$

4 a. $3 \div \frac{4}{3} =$

4 b. $4 \times 6\frac{1}{6} =$

Name: _____

5th into 6th

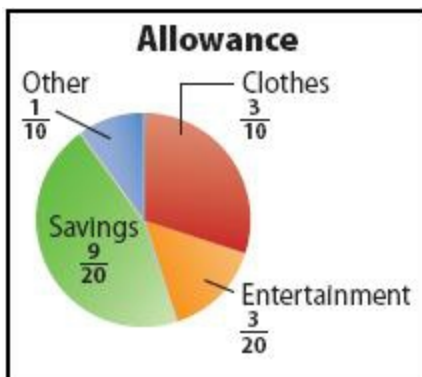
1. The win:loss ratio of a baseball team for the season is 48:16. Simplify the ratio.
2. Students were surveyed about their extra-curricular activities. Twenty percent of the people who are in the band play the flute. How many band members do not play the flute?

Activity	Number of People
Play a Sport	73
Drama Club	29
Band	40
Choir	31

3. Hannah's cat had a litter of kittens. She recorded the pattern of the kittens' fur in the table below. What fraction represents the kittens that have a striped or spotted fur pattern?

Fur Pattern	Number of Kittens
Striped	1
Spotted	3
Solid	6

4. Steven receives \$25 for his allowance. The graph shows how Steven spends his weekly allowance. What decimal represents the part Steven will save in 4 weeks?



Name: _____

5th into 6th

5. Sugar Shack Cookies had 5 types of cookies in its display case. The number of each cookie sold during one day was recorded in the table below. What was the percent of chocolate chip and oatmeal raisin cookies sold?

Cookie Type	Number Sold
Oatmeal Raisin	9
Sugar	21
Peanut Butter	15
Chocolate Chip	35
Frosted	30

6. Carter's basketball practice is broken down into the following skills. Which of the following statements is true?

Skill	Time Spent (min)
Offense	30
Defense	25
Conditioning	20
Free Throws	15

- a. The ratio of the time Carter spends practicing offense to the total time practicing is 1:3.
- b. Carter spends 25% of his practice time on defense.
- c. Carter spends a larger percent of time practicing free throws than conditioning.
- d. The ratio of time Carter spends on conditioning to the total is 1:4.
7. Sophia bought a bushel of oranges that weighs 14.2 pounds. How many bushels would she need to purchase to have 99.4 pounds of oranges?
8. Charlie earns \$12.75 for each hour of lawn work he completes. On Saturday he worked 5.5 hours and on Sunday he worked 3.75 hours. How much money did he earn that weekend? Round to the nearest cent.
9. The rectangle represents Julio's backyard. For each meter of perimeter he needs to purchase 2.5 units of fencing. How many units of fencing does he need to purchase?



Name: _____

5th into 6th

10. The McCool Family had \$25.00 to spend on dinner. They ordered 3 cheeseburgers, 2 hot dogs, 3 side salads, and 4 drinks. How much money did they have left over?

Item	Cost (\$)
Cheeseburgers	\$2.25
Hot dogs	\$1.25
Side salad	\$0.75
Drinks	\$1.25

11. Frank is planned to jog $5\frac{3}{4}$ miles on Monday and $4\frac{1}{2}$ miles on Wednesday. He only jogged $\frac{3}{5}$ of the miles he planned to run that week. How many miles did he actually jog?
12. A chef uses $5\frac{2}{5}$ pounds of ground beef to make a hamburgers and $2\frac{1}{4}$ pounds of ground beef to make meatloaf. The ground beef comes in $\frac{1}{2}$ -pound packages. How many packages of ground beef are needed to make hamburgers and meatloaf?
13. Heather buys bags of rice that contain $6\frac{3}{4}$ cups of rice. Each serving is $\frac{1}{2}$ cup of rice. How many servings will she be able to have?
14. Robert has \$55 in his bank account. He deposits \$40 in his bank account. He then spends \$75 on supplies for his garden. How much does Robert have in his account?
15. Camilla cleaned 30 windows in $2\frac{1}{2}$ hours. If w represents the average rate at which she cleaned windows, what is the value of w ?
16. Mary made 14 goodie bags for her birthday party. Each bag got 8 prizes. How many prizes did Mary buy for the goodie bags?

Name: _____

5th into 6th

17. Bill and Susie work at a bakery. The table shows the number of cakes each person decorated in different numbers of hours. How many more cakes can Susie decorate at the end of a 5-hour shift than Bill?

Hours	Bill	Susie
1	3	4
2	6	8
3	9	12
4	12	16

18. Kaitlyn is making parallelogram-shaped flags for the 14 girls on her softball team. The height of each flag will be 3 feet and the base of each flag will be 4.5 feet. How much fabric will Kaitlyn need to make all the flags? *The area of a parallelogram is found by multiplying base \times height.*

19. Kim is building a triangular sandbox in the backyard. The triangle has a height of 5 feet and base of 5 feet. What is the area of the sandbox? $Area = \frac{1}{2} \times b \times h$

20. The floor of a swimming pool is covered in 525 blue, 300 green, and 75 white tiles. What is the ratio of blue to white tiles?

21. Shari recorded the number of hours she slept each night, as shown in the table. What was her average time slept, in minutes per night?

Night	1	2	3	4
Time (hrs)	8	6.5	7	8.5

22. Siri is making lemonade to sell at her lemonade stand. She made a batch of 8 pitchers of lemonade using 24 lemons, 12 cups of sugar, and 20 liters of water. She decides to make a second batch of 6 pitchers of lemonade. How many liters of water should she use to make the second batch of lemonade?

Name: _____

5th into 6th

23. The table shows the percent of each type of grade earned on the math project in Ms. Robbin's class. What fraction represents the students that earned a C or better?

Grade	Percent of Students
A	5
B	10
C	3
D	2
F	1

24. Maria spends 2 hours a night doing homework. The table below shows how Maria spends her time. What decimal represents the amount of time she spends on spelling and math homework?

Subject	Time Spent
Science	$\frac{2}{5}$
Math	$\frac{3}{10}$
Spelling	$\frac{1}{10}$
Social Studies	$\frac{1}{5}$

25. Ethan read a 120-page book over the weekend. He kept a record of how many pages he read each day. Which statement is true?

Day	Pages Read
Friday	33
Saturday	72
Sunday	15

- a. Ethan read 33% of the book on Friday.
- b. Ethan read 40% of the book on Friday and Sunday.
- c. Ethan read 66% of the book on Saturday.
- d. Ethan read 120% of the book over the weekend.

26. Andy is buying equipment to get ready for baseball season. He purchased a bat, a glove, and 3 baseballs. If tax on his purchases will be \$2.94, how much change will she receive from \$55?

Item	Cost (\$)
Bat	22.50
Glove	18.95
Baseball	2.50

Name: _____

5th into 6th

27. Tom is buying mulch for the flower beds around his house. The total area he need to cover with mulch is 220 square feet. Each bag of mulch covers $15\frac{3}{4}$ square feet. About how many bags will Tom need to purchase to cover his flower beds?
28. Stephanie received \$15.25 for babysitting Friday night, \$17.75 for babysitting Saturday night, and \$21.50 for doing yard work Sunday afternoon. How much more did she earn for babysitting than for doing yard work?
29. Hannah is buying snacks at the store. She buys 0.5 pound of gummy bears, 0.75 pound of chocolate covered pretzels, and 2.4 pounds of hard candy. The cost per pound of each type of snack is in the table below. How much did Hannah spend at the store?

Snack Store	
Item	Cost per Pound (\$)
Gummy Bears	2.40
Chocolate Covered Pretzels	6.00
Hard Candy	1.75

30. Natalie has an \$80 budget to buy an outfit for her school dance. She spent $\frac{1}{2}$ of her budget on a dress, $\frac{3}{8}$ of her budget on shoes, and $\frac{1}{8}$ of her budget on accessories. How much more did Natalie spend on the dress than accessories?
31. Jenny puts $\frac{2}{3}$ cup of milk in her smoothie every morning. If she buys a gallon of milk, how many smoothies can she make? (1 gallon = 16 cups)
32. John drives his car 20 meters forward in a straight line and then goes 12 meters in reverse following the same straight line. Which number represents his position from the starting point?
- a. 32 b. 8 c. -8 d. -32

Name: _____

5th into 6th

33. Stella was invited to 4 birthday parties. She wants to buy a present for each party. She will buy a doll, an outfit, and a puzzle for each party. The cost for each item is shown in the table below. Which expression represents the cost of all 4 presents?

Present	Cost (\$)
Doll	12.50
Outfit	5.75
Puzzle	3.90

- a. $4(12.5 + 5.75 + 3.90)$ b. $12.5 + 5.75 + 3.90$ c. $4 \times 12.50 + 5.75 + 3.90$ d. $4 + 12.50 + 5.75 + 3.90$
34. Laura spends 4 hours reading a book that is 76 pages long. What is the average number of pages she read per hour?
35. Misha is buying tiles to create a back splash in her kitchen. She bought 108 tiles from the store that came in 9 separate boxes. Let b represent the number of tiles in each box. Which equation below can be used to find the number of tiles in each box?

a. $\frac{9}{b} = 108$ b. $9b = 108$ c. $9 + b = 108$ d. $b - 9 = 108$

36. The table shows the number of pizzas Mike and Roger make per hour. How many more pizzas can Mike make than Roger after 6 hours?

Hours	Mike	Roger
1	3	5
2	6	15
3	9	20
4	12	25

37. The perimeter of a rectangle is 24 inches. The rectangle is enlarged so that each side is twice as long as the original. What effect does this enlargement have on the perimeter?
38. Jamie trains for a marathon 4 days a week. She ran 6 miles, 8 miles, 5 miles, and 11 miles during the 4 days of workouts. What is the average number of miles Jamie ran each day?