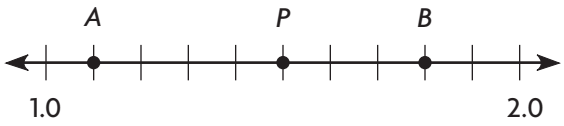
Name _____

Decimals on the Number Line

The number line below shows decimal values between 1.0 and 2.0. Which number does point *P* represent?



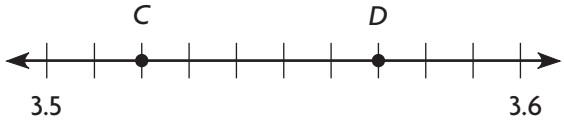
Since the distance between 1.0 and 2.0 is divided into 10 equal parts, each part is one-tenth. Start at 1.0 and count up by tenths

until you reach point *P*. Point *P* is at _____.

Use the number line above to write the number for each point.

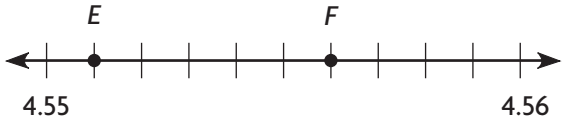
1. point *A* _____ **2.** point *B* _____

Use the number line below to write the number for each point.



3. point *C* _____ **4.** point *D* _____

Use the number line below to write the number for each point.



5. point *E* _____ **6.** point *F* _____

7. Write Math Draw a number line from 1.88 to 1.89. Label the number 1.886 as point *X*. **Explain** your thinking.

_____

_____

_____

Name _____

Decimals as Scores

Four gymnasts competed in three events at a gymnastics meet. The table shows the gymnasts' scores.

Gymnast	Balance Beam	Uneven Bars	Floor Exercise
Cara	8.975	9.025	9.537
Addison	9.152	9.25	8.805
Shelby	8.575	9.375	8.75
Meg	9.5	8.85	9.05

Use the data in the table to answer the questions.

1. Who earned a score of eight and five hundred seventy-five thousandths? In which event did she earn that score?

_____

2. Who earned a score of $9 \times 1 + 2 \times (\frac{1}{100}) + 5 \times (\frac{1}{1,000})$? In which event did she earn that score?

_____

3. Who earned a score with a 3 in the tenths place? In which event did she earn that score?

_____

4. Who earned a score of nine and five hundredths? In which event did she earn that score?

_____

5. Who earned a score with a 2 in the thousandths place? In which event did she earn that score?

_____

6. Who earned a score of $8 \times 1 + 8 \times (\frac{1}{10}) + 5 \times (\frac{1}{1,000})$? In which event did she earn that score?

_____

7. How many gymnasts earned a score in which one of the digits has a value of 0.07?

_____

Name _____

Order Your Own Decimals

Solve each problem. In each row, use each digit exactly once.

1. Place the digits 0, 2, 5, 8 in each row of the table to create four decimals that are in order from least to greatest.

Ones	Tenths	Hundredths	Thousandths

2. Place the digits 1, 3, 6, 9 in each row of the table to create four decimals that are in order from greatest to least.

Ones	Tenths	Hundredths	Thousandths

3. Place the digits 0, 1, 4, 7, 8 in each row of the table to create four decimals that are in order from least to greatest.

Tens	Ones	Tenths	Hundredths	Thousandths

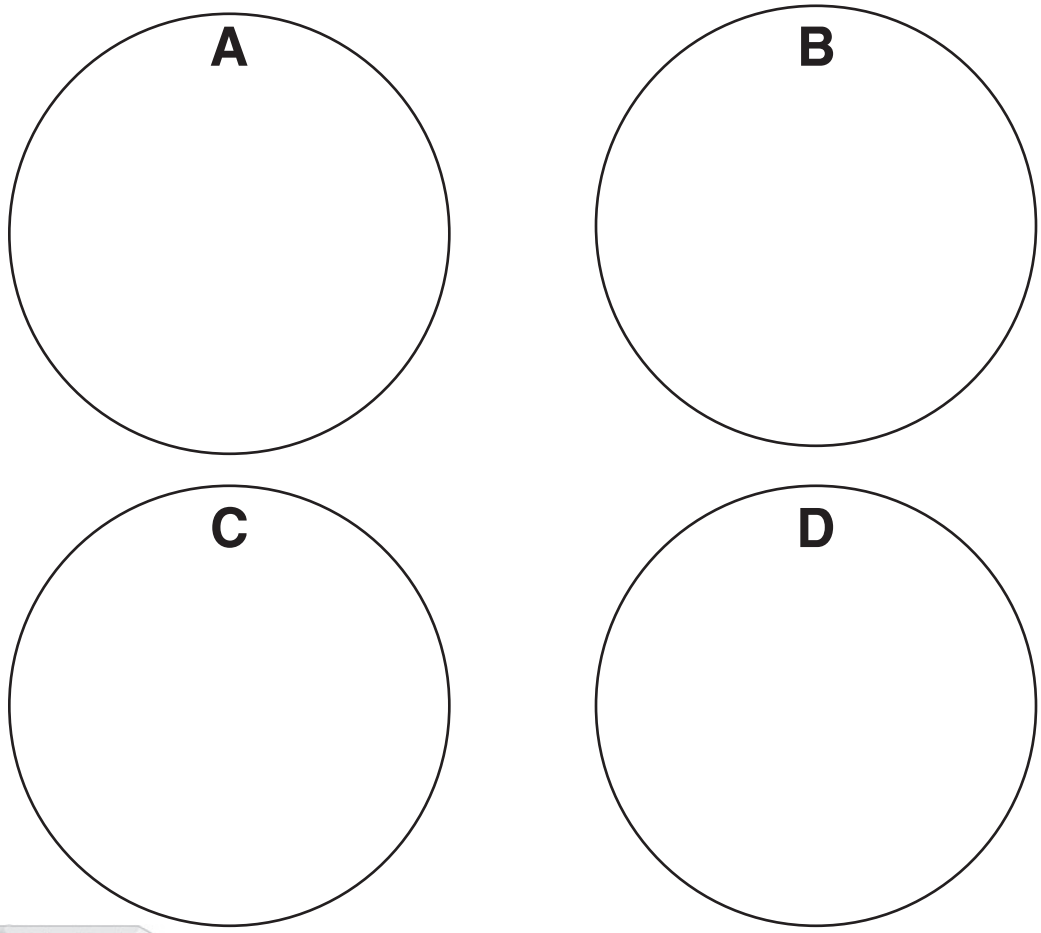
4. Place the digits 2, 3, 6, 8, 9 in each row of the table to create four decimals that are in order from greatest to least.

Tens	Ones	Tenths	Hundredths	Thousandths

Name _____

Decimal Round Up

1. In circle A, write 9 decimals, with three decimal places, that when rounded to the nearest hundredth, round to 4.56.
2. In circle B, write 9 decimals, with one decimal place, that when rounded to the nearest one, round to 7.
3. In circle C, write 9 decimals, with two decimal places, that when rounded to the nearest tenth, round to 8.7.
4. In circle D, write 9 decimals, with three decimal places, that when rounded to the nearest tenth, round to 1.3.



5. Write Math In which circle are more than 9 decimals possible? **Explain**.

_____

_____

_____

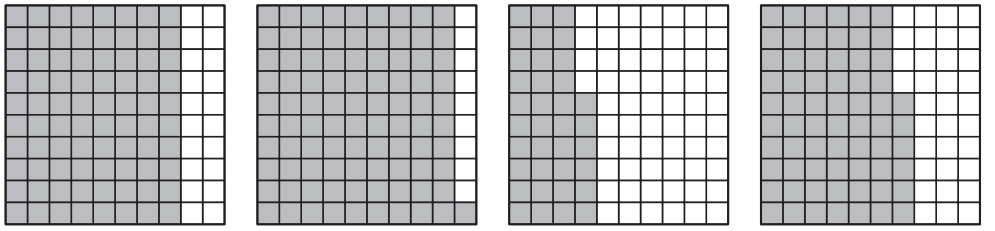
_____

Name _____

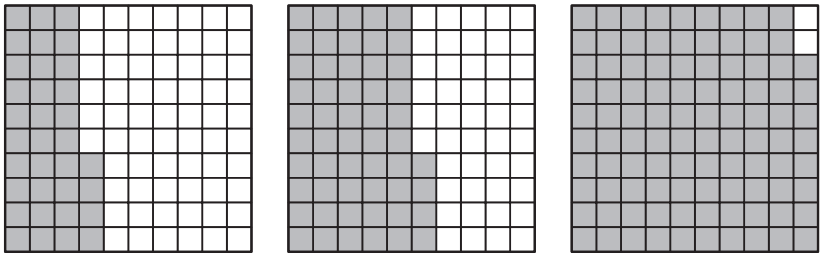
Model Connection

Draw lines to match the addition expression shown in each rectangle with the model that represents its sum. Then write the sum on the line below the model.

0.23 + 0.09 + 0.02	0.02 + 0.49 + 0.03	0.12 + 0.12 + 0.12
0.45 + 0.47 + 0.06	0.82 + 0.09 + 0.00	0.33 + 0.23 + 0.10
	0.29 + 0.20 + 0.31	

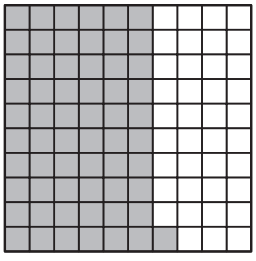


_____ _____ _____ _____



_____ _____ _____

1. **Stretch Your Thinking** Write a decimal addition sentence whose sum could be represented by the model.



_____

_____

2. Write Math **Explain** the strategy you used to find the sum of three addends.

_____

_____

_____

_____

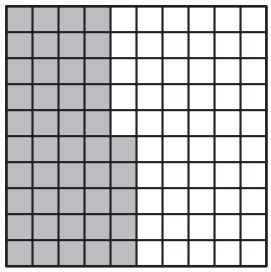
_____

_____

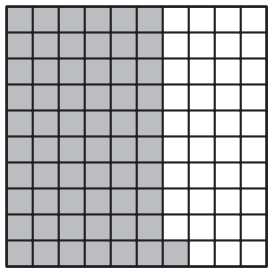
Name _____

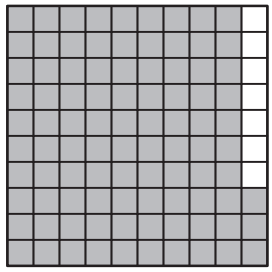
Model Building

Subtract 0.25 from each decimal represented by the models below. Then write the difference on the line provided.



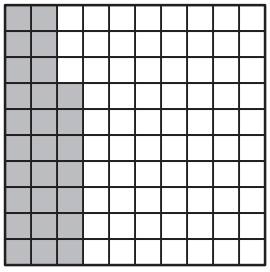
_____

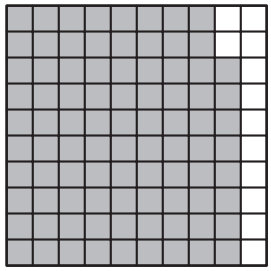


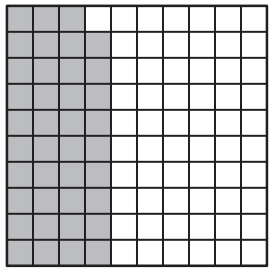


_____

_____







_____

_____

_____

1. **Stretch Your Thinking** Without subtracting, how can you tell which decimal modeled above will have the least difference when you subtract 0.25 from it?

_____

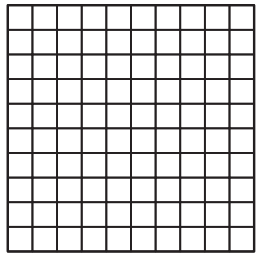
_____

_____

_____

_____

2. Write Math Write a decimal subtraction sentence whose difference is greater than the greatest difference you found above. Shade the model to show the difference.



_____

_____

Name _____

Driving Decimals

Round the number of miles driven each day to the nearest whole number. Write the estimated total for each person in the last column. Then use the data in the table to solve the problems.

Number of Miles Traveled

Driver	Friday	Saturday	Sunday	Total Miles
Mrs. McEnery	14.57	36.92	17.9	
Ms. Sanders	90.7	39.77	24.33	
Mrs. Adams	44.63	21.16	39.1	
Mr. Harrison	73.23	50.58	45.55	
Mr. Volga	68.85	32.46	62.12	

1. On Friday, about how many more miles did Ms. Sanders drive compared to Mr. Volga?

_____

2. About how many more total miles did Mr. Harrison drive than Mrs. Adams?

_____

3. About how many more miles did the driver who traveled the greatest total distance drive than the driver who traveled the least total distance?

_____

4. About how many miles did Mr. Volga drive on Saturday and Sunday?

_____

5. What is the estimated difference between the driver who traveled the greatest distance in one day and the driver who traveled the least distance in one day?

_____

6. Estimate the difference between the greatest daily distance Mr. Harrison traveled and the least daily distance Mr. Harrison traveled.

_____

7. Estimate the total number of miles all five drivers traveled on Saturday.

_____

8. Write and solve your own estimation problem using the data from the table.

_____

_____

_____

_____

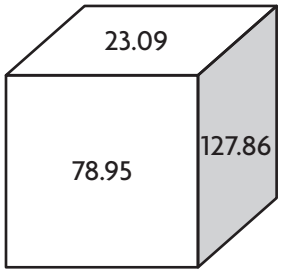
_____

Name _____

Sum Match-Up

Find the sum of the decimals shown on each cube. Then match each sum to the square with the correct sum.

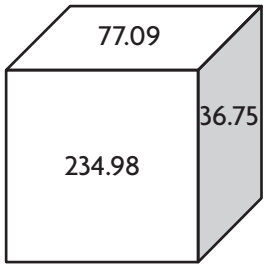
1.



418.08

_____

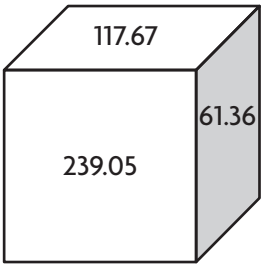
2.



229.9

_____

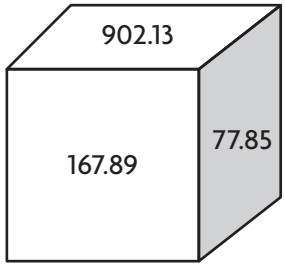
3.



1,147.87

_____

4.



348.82

_____

5. Write Math Tell how you found the sum in Exercise 2.

_____

_____

_____

6. **Stretch Your Thinking** Tell how you can check your answer for Exercise 4.

_____

_____

_____

Name _____

In the Box Decimals

For 1–6, find the unknown numbers that make the subtraction sentence true.

1.
$$\begin{array}{r} 147.0\square \\ -\ \square 5.09 \\ \hline 10\square.98 \end{array}$$

2.
$$\begin{array}{r} \square 83.41 \\ -1\ 19.7\square \\ \hline 4\ \square 3.64 \end{array}$$

3.
$$\begin{array}{r} 942.99 \\ -\ 53.65 \\ \hline 88\square.\square 4 \end{array}$$

4.
$$\begin{array}{r} 6\square 4.10 \\ -529.1\square \\ \hline 1\square 4.98 \end{array}$$

5.
$$\begin{array}{r} \$\ 1,\square 24.1\square \\ -\$\ \ 445.\square 3 \\ \hline \$\ \ 57\square.22 \end{array}$$

6.
$$\begin{array}{r} \$\ 8\square 4.92 \\ -\$\square 56.0\square \\ \hline \$\ \ 78.85 \end{array}$$

7. Write Math **Explain** how to subtract decimals.

_____

_____

_____

8. Stretch Your Thinking Tell how you can check your answer for Exercise 1.

_____

_____

_____

Name _____

Pattern Match

**Write the letter of the sequence that matches each clue.
Each sequence has 5 terms and is used exactly once.
Then write the unknown terms in the sequence.**

	Clue	Sequence
_____	**1.** Start at 1.2, end at 10.	**a.** 1.2, 1.15, _____, _____, _____
_____	**2.** Start at 8, add 0.3.	**b.** 6, 9.5, _____, _____, _____
_____	**3.** Start at 8.02, end at 8.22.	**c.** _____, 4.8, _____, 4.4, _____
_____	**4.** Start at 4, subtract 0.02.	**d.** 1.2, 3.4, _____, _____, _____
_____	**5.** Start at 1.2, subtract 0.05.	**e.** 8.08, _____, _____, 8.02, _____
_____	**6.** Start at 5, end at 4.2.	**f.** _____, 8.3, _____, 8.9, _____
_____	**7.** Subtract 2.4, end at 10.	**g.** 8.02, 8.07, _____, _____, _____
_____	**8.** Add 3.5, end at 20.	**h.** _____, 3.98, _____, 3.94, _____
_____	**9.** Subtract 0.02, end at 8.	**i.** _____, 14.6, _____, _____, 13.4
_____	**10.** Start at 15, subtract 0.4.	**j.** 19.6, _____, _____, 12.4, _____

11. Write Math **Explain** how you found the matching sequence in Exercise 6.

_____

_____

_____

_____

_____

Name _____

Balancing Act

Make and complete a table to solve.

1. Felicia wants to buy a new soccer ball. It is on sale for $12.60. She has one $10 bill, two $5 bills, three $1 bills, 6 quarters, and 3 nickels. Make a table to find four ways she could pay for the soccer ball.

2. Since his January statement, Mr. Park has written two checks for $6,098.11 and $3,876.99 and made a deposit. His January statement shows a balance of $12,897.55, and his checkbook balance shows he currently has $6,984.85.

How much did Mr. Park deposit? _____

Balancing Mr. Park's Checkbook	
January balance	

3. Mrs. Chen wrote two checks and made a deposit of $1,987.09 since her October statement. The October statement shows a balance of $3,611.08, and her checkbook balance shows she currently has $2,778.69. What is the total amount of the checks

that Mrs. Chen wrote? _____

Balancing Mrs. Chen's Checkbook	
October balance	

4. **Stretch Your Thinking** **Explain** how you could use another strategy to solve Exercise 3.

_____

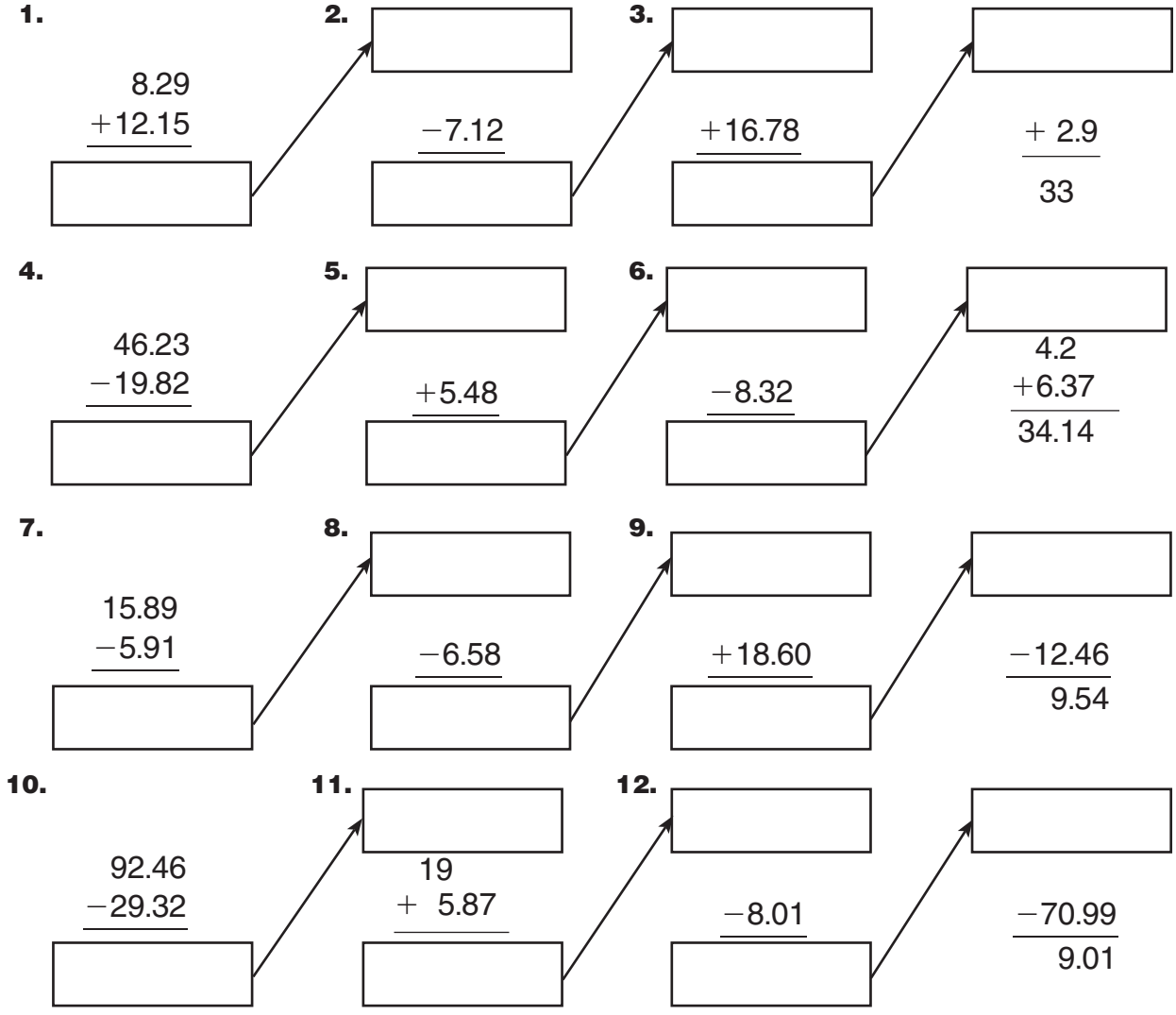
_____

_____

Name _____

Decimal Dance

Use mental math, place value, or a calculator to solve 1–12. Write each sum or difference in the top box of the next column until you finish the last exercise in each row.



13. Write Math What if the first number in Exercise 1 were 8.39? How would the sums and differences in the first row change?

_____

_____

_____