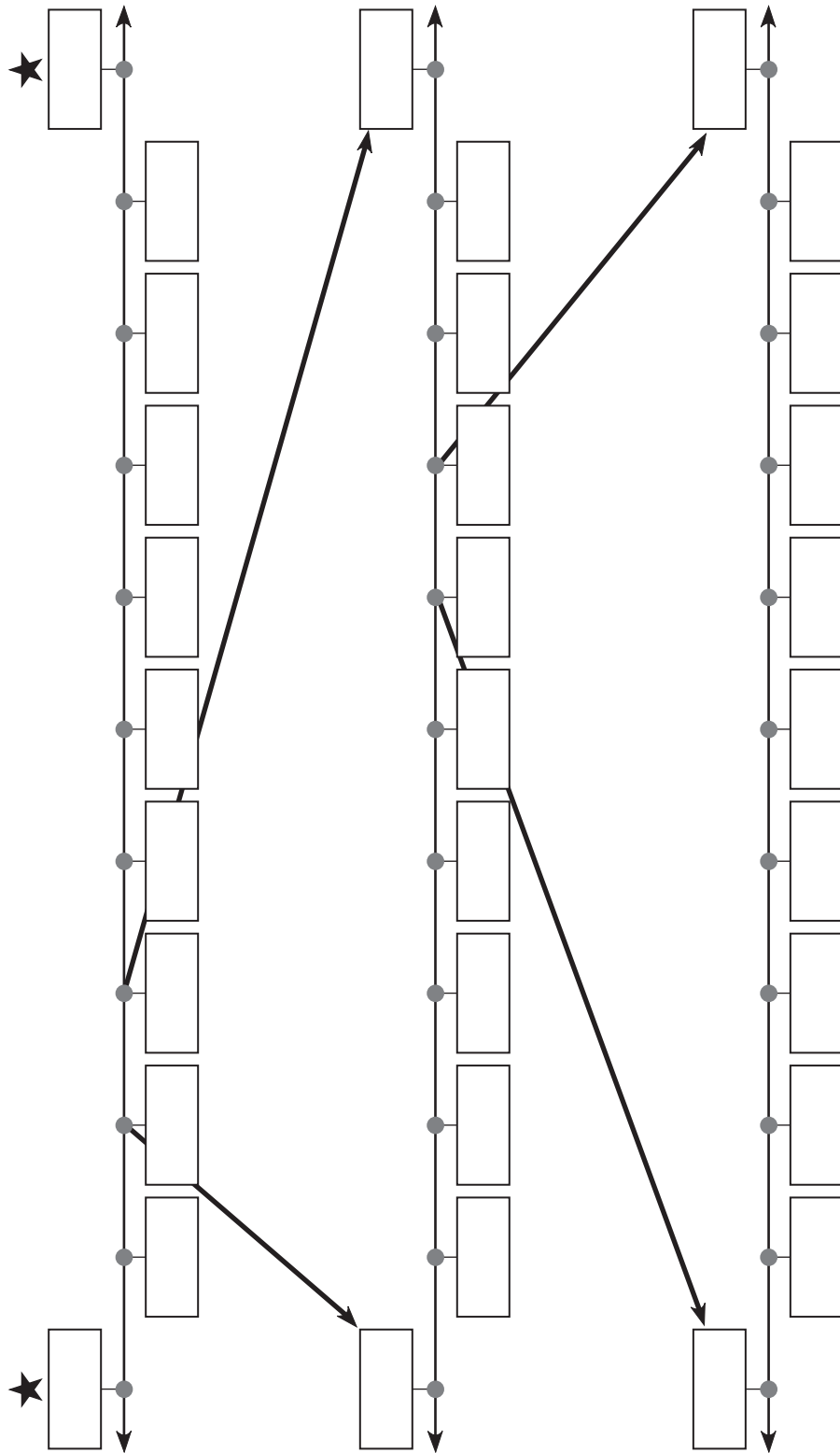


Investigating Decimals

Put two consecutive whole numbers (such as 16 and 17 or 300 and 301) in the ★ boxes. Write the numbers between them. Follow the arrows, copy the numbers, and write numbers between them.



Comparing and Ordering Decimals

- 1 Write four different digits on the cards. (Do not use 0.) List all the numbers that can be made with all four digits and one, two, or three decimal places. Use each digit only once in each number. See if you can find all 72 different numbers!

--	--	--	--

-
- 2 List the 10 greatest numbers in order from greatest to least.

Tell how you know your order is correct.

Large and Small Numbers

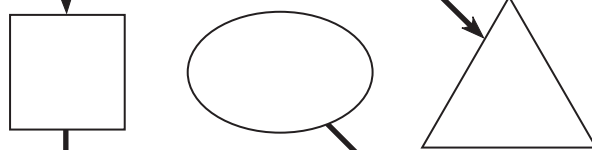
Follow the steps.

Step 1 Pick two consecutive whole numbers and write them in the squares.

Step 2 Pick a number between them and write it in the triangle.



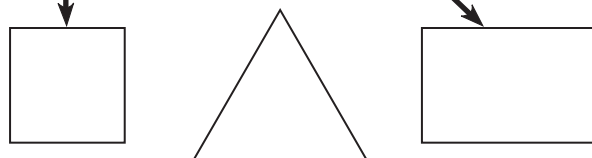
Step 3 Copy the first and middle numbers into the square and triangle. Pick a number between them and write it in the oval.



Step 4 Copy the numbers into the square and oval and write a number between them in the rectangle.



Step 5 Follow the same procedure once more.



What do you notice about the numbers you picked?

Connecting Decimals to Fractions

Write the mixed number that matches the decimal.

1

100s	10s	1s	10ths	100ths
2	9	6	4	1

2

100s	10s	1s	10ths	100ths
3	0	2	6	

3

100s	10s	1s	10ths	100ths
6	1	0	0	7

4

100s	10s	1s	10ths	100ths
	5	0	5	0

5

100s	10s	1s	10ths	100ths	1,000ths
3	2	0	1	0	2

Write the decimal that matches the mixed number.

6

100s	10s	1s	10ths	100ths

$$205\frac{12}{100}$$

7

100s	10s	1s	10ths	100ths

$$700\frac{30}{100}$$

8

100s	10s	1s	10ths	100ths

$$440\frac{4}{10}$$

9

100s	10s	1s	10ths	100ths

$$562\frac{9}{100}$$

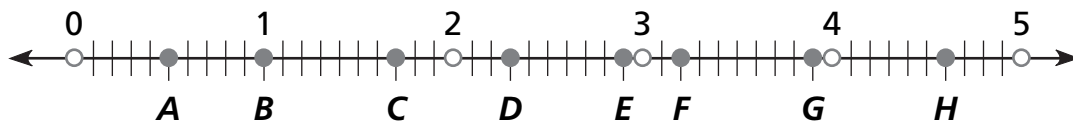
10

100s	10s	1s	10ths	100ths	1,000ths

$$687\frac{305}{1,000}$$

Connecting Decimals to Other Fractions

Use the number line to answer the questions below.



- 1 Find two points that are **0.7** apart. _____

- 2 Is there another pair that is **0.7** apart? _____
If so, name them. _____

- 3 Find two points that are **1.2** apart. _____

- 4 Is there another pair that is **1.2** apart? _____
If so, name them. _____

- 5 Are there three points that are equally spaced? _____
If so, name them. _____

- 6 How far apart are the Points *A* and *H*? _____

- 7 Which points are the closest together? _____

- 8 Are there two points that are $\frac{3}{5}$ of a unit apart? _____
If so, name them. _____

Estimating Decimals Using Familiar Fractions

- 1 You may use a calculator to divide numerators by denominators to complete the division table.

		NUMERATORS									
		1	2	3	4	5	6	7	8	9	10
DENOMINATORS	÷										
	1										
	2										
	3										
	4										
	5										
	6										
	7*										
	8										
	9										
10											

* In this row, show numbers to the hundredths place without rounding.

- 2 Describe a pattern that you notice.

Estimating Decimals Using Rounding

- Write a digit in each space to show numbers in decimal notation.
- Do not repeat any digit more than twice in one number.
- Either trade papers with a partner and complete your partner's paper, or finish your own.

1 Round _____ • _____ to the nearest . . .

Whole Number: _____ Tenth: _____ Hundredth: _____

2 Round _____ • _____ to the nearest . . .

Whole Number: _____ Tenth: _____ Hundredth: _____

3 Round _____ • _____ to the nearest . . .

Tenth: _____ Hundredth: _____ Thousandth: _____

4 Round 0 • _____ to the nearest . . .

Tenth: _____ Hundredth: _____ Thousandth: _____

Adding with Decimals

Write a number that is . . .

- ① greater than $28.4 + 31.25$, but less than $28 + 32$.

- ② less than $14.82 + 6.19$, but greater than 21.

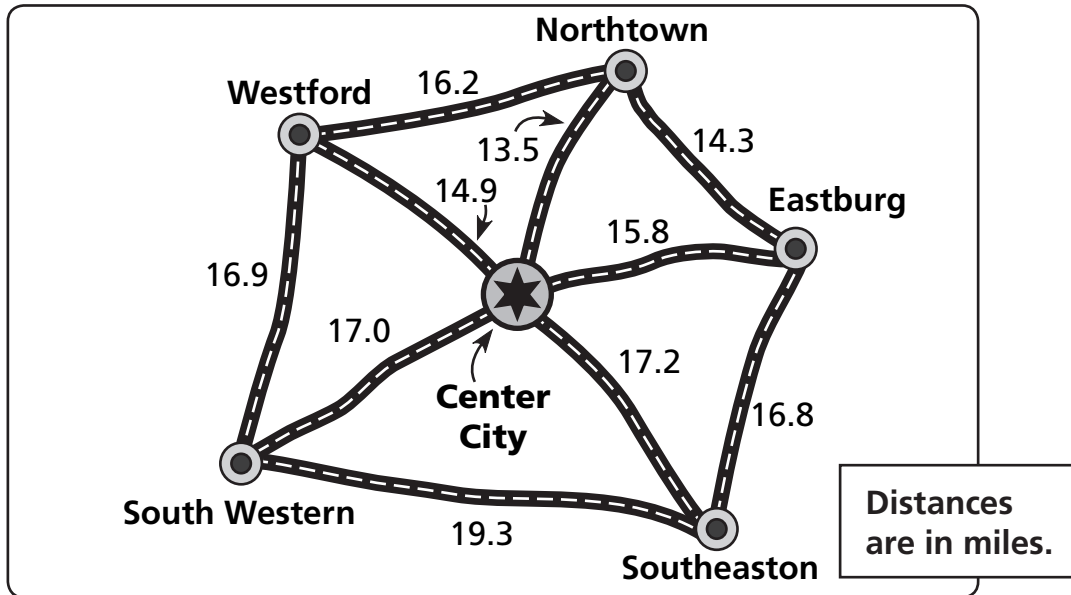
- ③ less than $7.12 + 6.73 + 4.09$, but greater than 17.

- ④ greater than $30.06 + 12.55 + 9.8$, but less than $30 + 13 + 10$.

- ⑤ greater than $46.2 + 39.56$, but less than $39.72 + 46.5$.

- ⑥ less than $67.418 + 12.09$, but greater than $5.307 + 28.6$.

Subtracting with Decimals



1 Is the route from Northtown to Southeaston shorter when you pass through Center City or when you pass through Eastburg? What is the difference?

2 Do you travel a shorter distance from Eastburg to Westford if you pass through Northtown or Center City? What is the difference?

3 Maureen’s delivery route begins in Center City and goes to Eastburg, Northtown, Westford, and back to Center City. Colleen’s delivery route begins in Center City and goes to South Western, Southeaston, Eastburg, and back to Center City. Whose route is shorter? What is the difference?



4 Explain how you know your answer to Problem 3 is correct.

Adding and Subtracting Decimals

Which items might each person have bought?

SCHOOL STORE PRICE LIST

Pencil 5¢ each

Binder \$1.65

Key Chain ... \$1.25

Pen 10¢ each

5-Pack Glue... \$1.00

Water \$1.75

Pencil Case.... \$4.50

T-Shirt \$5.99

Pretzel 99¢

Poster Board... \$1.10

Mug \$3.11

Sandwich ... \$2.99

1 Kelly spent \$7.08.

2 Joel spent \$7.85.

3 Roger spent \$3.90.

4 Lolita spent \$12.97.

Multiplying with Decimals

Complete the tables.

1

×	3	0.2	0.5
1.2			
0.5			
12			
0.9			

2

×	5	0.3	0.05
2.3			
11			
0.6			
4.6			

3

×	10	0.19	4.1
3			
0.02			
0.005			
0.7			