)	The Appalachian Trail passes
	through 14 U.S. states, from
	Maine to Georgia. Use the data
	in the table to solve the problems
	given below. Lengths are rounded
	to the nearest mile.

(1)

a. The trail in New York is how many times as long as the trail in West Virginia?

State	Length of Trail (in miles)
New York	88
West Virginia	4
Maine	281
New Hampshire	161
Vermont	150
Massachusetts	90

Equation with unknown: _____

Answer: _____ times as long

b. Dan and Pat hiked the trail from its start in Maine, through New Hampshire, and all the way through Vermont. Pat ended his hike there, but Dan continued all the way through Massachusetts and then hiked back to the starting point in Maine. How much farther did Dan hike than Pat?

Estimate: _____

Number model with unknown: _____

Answer: _____ miles farther

Is your answer reasonable? Explain. _____

	a. h	Starting with 1	6 * 9, write the nex	kt 5 numbers in the	pattern.			
	0.							
3	a.	 Alexander wrote down a 6-digit whole number. When he rounded it to the hundreds place, the answer was 1,000,000. Circle the number(s) below that might have been Alexander's number. 						
		959,999	999,957	998,945	999,999			
	b.	ls 9 [100,000s equivalent to a	s] + 5 [10,000s] + c any of the numbers	1 [1,000s] + 9 [100s in Problem 3a?	.] + 5 [10s] + 9 [1s]			
	C.	Select two nur	nbers in Problem 3a	a and record a numb	er sentence using $<$, =, or 2			
	d.	How many tim	es greater is the va	lue of the 5 in 999,	957 than in 998,945?			
_								
	Sc	olve using U.S. 1	traditional addition of	or subtraction. Show	your work.			
(4)								

(5) Solve. Show your work in the space provided.

a. 38 * 27 =	b. 7,065 ÷ 9 =

- Joel's dishwasher uses about 7 gallons of water each time he uses it.
 He ran his dishwasher every day for several weeks, using a total of 217 gallons of water.
 - a. For how many days did Joel use his dishwasher?

Answer: _____ days

b. How many quarts of water were used all together? _____ quarts



8	a.	Write <, =, or >. Whole					
		$\frac{8}{10}$ $\frac{4}{5}$					
	b.	b. Explain how you know your answer to Problem 8a is correct.					
	C.	$\frac{1}{12} < \frac{1}{2}$					
	d.	Explain how you know your answer to Problem 8c is correct.					
9	a.	Calvin adds 3 fractions to get an answer of $\frac{1}{2}$. What might his equation be?					
		Equation:					
	b.	Evan subtracts 2 fractions to get an answer of $\frac{3}{4}$. What might his equation be?					
		Franchis es					
		Equation:					
10	De wit Th	compose, or break down, $\frac{q}{10}$ into two different sums of fractions th the same denominator. Record each decomposition with an equation. en justify each decomposition by coloring the parts of the circle.					
	a.	Equation: b. Equation:					

11	Whole grid	
	a. Write seven-tenths as a decimal and a	as a fraction.
	Decimal:	Fraction:
	b. Write $\frac{7}{100}$ as a decimal and in words.	
	Decimal:	Words:
	 c. Write a number sentence using <, =, to compare the decimals in Problems 	or > 11a and 11b
	d. Explain how you know your number s	entence for Problem 11c is correct.
	e. Add the fractions from Problems 11a	and 11b. Show your work.

Answer: _____

 ${\bf f.}~$ Color part of the grid to show your answer to Problem 11e.



Use a formula to find the perimeter of the rectangle. Show your work in the space provided.



Perimeter: _____ meters

Number sentence with unknown: _____

(13) Use a formula to find the area of the rectangle. Show your work in the space provided.

> 15 in. .Ľ m

Area: ______ square inches

Number sentence with unknown:

(14) Use a protractor to complete the following.

:	a. X	b. Draw an an of 150°.	gle with a measure	
	Measure of ∠XYZ:	o 		
	c. Is $\angle XYZ$ acute, right, or ot	otuse?		
	Explain.			
(15)	Find the unknown angle meas Do not use a protractor. Equation with unknown:	sure.	?	
,	° Answer:		115°	
(16) Draw an example of each object in the boxes.				
	line	point	obtuse angle	
	ray	acute angle	line segment	

17				
	 a. Circle the polygon that has: 2 pairs of parallel sides 4 right angles 	b. Draw an "X" o 1 pair of perp 1 right angle	over the polygon that has: endicular sides	
	Name:	Name:		

(18) Amy drew a shape and showed it to her teacher.Her teacher said the shape had exactly 2 lines of symmetry.

a. Circle the shape below that might have been the one Amy drew.



- **b.** Draw the 2 lines of symmetry on Amy's shape.
- c. Explain how you know which shape is Amy's.



- Solve the number stories.
- **a.** Polly wants to make strawberry lemonade for 8 of her friends. She wants each friend to get $\frac{1}{4}$ of a liter of lemonade. How many liters of lemonade should she make?

Number model with unknown: _____

Answer: _____ liter(s)

b. Kerry and Zach just moved into a new house. They are painting all the walls new colors. If they paint $\frac{2}{3}$ of a wall each day, how many walls will they have painted in 4 days?

Number model with unknown: _____

Answer: _____ wall(s)