End-of-Year Assessment

- 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.
 - 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. _____



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nd-of-Yea	ar Assessme	nt (continued)	
	the pattern below is <i>r</i> 5, 45, 54, 63, 72, 81		
a. Starting v	vith 16 * 9, write the	next 5 numbers in tl	ne pattern.
b. Describe	a pattern that you se	ee	
When he	wrote down a 6-digit rounded it to the hun number(s) below that	dreds place, the ans	
When he	rounded it to the hun	dreds place, the ans	
When he Circle the 959,999 b. Is 9 [100	rounded it to the hun number(s) below that 999,957	dreds place, the ans t might have been Al 998,945 + 9 [1,000s] + 9 [10	exander's number. 999,999 00s] + 5 [10s] + 9 [1s]
When he Circle the 959,999 b. Is 9 [100 equivalen	rounded it to the hun number(s) below that 999,957 .000s] + 5 [10,000s] t to any of the numbe	dreds place, the ans t might have been Al 998,945 + 9 [1,000s] + 9 [10 ers in Problem 3a? _	exander's number. 999,999 00s] + 5 [10s] + 9 [1s]
When he Circle the 959,999 b. Is 9 [100 equivalen c. Select tw	rounded it to the hun number(s) below that 999,957 000s] + 5 [10,000s] t to any of the number o numbers in Problem	dreds place, the ans t might have been Al 998,945 + 9 [1,000s] + 9 [10 ers in Problem 3a? _ n 3a and record a nu	exander's number. 999,999 00s] + 5 [10s] + 9 [1s]
When he Circle the 959,999 b. Is 9 [100 equivalen c. Select tw d. How man	rounded it to the hun number(s) below that 999,957 000s] + 5 [10,000s] t to any of the number o numbers in Problem	dreds place, the ans t might have been Al 998,945 + 9 [1,000s] + 9 [10 ers in Problem 3a? _ n 3a and record a nu e value of the 5 in 99	exander's number. 999,999 00s] + 5 [10s] + 9 [1s] mber sentence using <, =, or 99,957 than in 998,945?

End-of-Year Assessment (continued)

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

a. 38 * 27 =	b. 7,065 ÷ 9 =

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- 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

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nd-of-Year Asses	sment (continued)		
Maricella measured the w to the nearest $\frac{1}{8}$ inch. Below	ingspans of several differe ow are the measures she	ent dragonflies recorded:	
	$2\frac{3}{8}, 3\frac{1}{8}, 2\frac{7}{8}, 2\frac{7}{8}, 3\frac{1}{8}, 3\frac{1}{4}, 2\frac{1}{8}$		
 a. Plot the data on the lin Include a title and labe 	1		
Title:			
<mark>- - - - </mark> 2 		<u> </u>	
Use the line plot to answe	00		-
Show your work in the spa			

c. What is the difference between the longest and shortest wingspans? _____ in.

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En	d	-of-Year Assessmen	t (continue	d)		
8	a.	, ,	/hole d circle			
	b.	Explain how you know your answ	ver to Probler	n 8a is corre	ect.	
	c.	$\frac{1}{12} < \frac{1}{2}$				
	d.	Explain how you know your answ	ver to Probler	n 8c is corre	ct.	
9	a.	Calvin adds 3 fractions to get ar What might his equation be? Equation:	2			
	b.	Evan subtracts 2 fractions to get What might his equation be? Equation:		7		
10	wi	ecompose, or break down, $\frac{q}{10}$ into ith the same denominator. Record nen justify each decomposition by	o two differer each decom	nt sums of fr	an equation.	
	a.	Equation:	b.	Equation:		
					$\left.\right)$	

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End-of-Year Assessment (continued)								
11	Whole grid							

a. Write seven-tenths as a decimal and as a fraction.

Decimal: _____ Fraction: _____

b. Write $\frac{7}{100}$ as a decimal and in words.

Decimal: _____

Words: _____

- **c.** Write a number sentence using <, =, or > to compare the decimals in Problems 11a and 11b. ____
- d. Explain how you know your number sentence for Problem 11c is correct.
- e. Add the fractions from Problems 11a and 11b. Show your work.

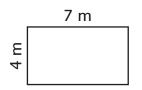
Answer: _____

f. Color part of the grid to show your answer to Problem 11e.

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End-of-Year Assessment (continued)

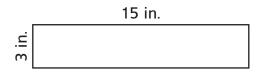
(12) Use a formula to find the perimeter of the rectangle. Show your work in the space provided.



Perimeter: _____ meters

Number sentence with unknown:

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



Area: ______ square inches

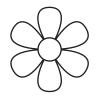
Number sentence with unknown: ____

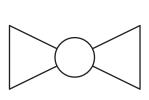
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nd-of	-Year Asses	sment (continued)		
) Use a p	protractor to compl	ete the following.		
a.	×		v an angle with a meas 50°.	ure
Мег	z	o 		
c. Is ∠	XYZ acute, right, o	r obtuse?		
Expl	ain			
Do not	e unknown angle n use a protractor. on with unknown:	neasure.	?	115°
Answer	:		¥	
Draw a	n example of each	object in the boxes.		
line		point	obtuse angle	
1				
ray		acute angle	line segment	
ray		acute angle	line segment	

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End-of-Year As	sessment	(continued)	
17			
 a. Circle the polygo 2 pairs of paralle 4 right angles 			X" over the polygon that has: perpendicular sides gle
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.

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End-of-Year Assessment (continued)

- (19) 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)