

# BEGINNING AND END OF THE YEAR MATH PRE/POST-TESTS

Item Analysis Data Sheet Student Name: \_\_\_\_\_

4th Grade Beginning of the Year Pre-Test

Questions	Standard	Procedural Understanding	Conceptual Understanding	(M) Missed
#1	4.G.2		X	
#2	4.G.2		X	
#3	4.G.2		X	
#4	4.G.3		X	
#5	4.G.1	X		
#6	4.G.3	X		
#7	4.G.1	X		
#8	4.NBT.1		X	
#9	4.NBT.1	X		
#10	4.NBT.2	X		
#11	4.NBT.1		X	
#12	4.NBT.3		X	
#13	4.NBT.4		X	
#14	4.NBT.6		X	



TRACK STUDENT DATA

- 32) Select true  
 a)  $7/10$  is equiv  
 b) 155 is equiv  
 c) 020 is equiv  
 d) 04 is equiv

33) Compare  
 $\frac{2}{10}$  ○ ○○

- 34) Jackson ran for 36 feet.

35) Solve  
 5 quarts = \_\_\_\_\_

- 36) What are the area of 36 cm

- 37) Find the area perimeter of the

- 24) Select all the nur  
 a) 24  
 b) 1

- 25) What are the m

- 26) Leslie made 2 pizz  
 Her family ate 6 slice  
 pizza into fewer slice  
 amount as the first p  
 How are the slices in t

27) Compare using <, >  
 $\frac{3}{4}$  ○  $\frac{6}{8}$       $\frac{5}{6}$  ○  $\frac{5}{6}$

- 29) Landon has  $\frac{1}{5}$  gc  
 he gives his cousin sor  
 left. How much juice c

- 30) Thomas used  $\frac{1}{5}$  o-  
 sugar to make a silk c  
 ingredients did he use

- 31) Myranda uses  $\frac{2}{3}$   
 she's baking 4 apple pi  
 caramel will she need

- 16) A clothing comp  
 new T-shirts. Each  
 many T-shirts doe

- 17) Draw a model t

- 18) Joey has 3 coo  
 has 4 times as mc  
 combined. How mc

- 19) A florist is putt  
 at a hospital. If sh  
 flowers, how man

- 20) Write an equa

- 21) Complete the p

- 22) Create a patt  
 Rule: multiply by 11

- 23) Identify each  
 a) 24  
 b) 13  
 c) 19  
 d) 50

- 8) Josie says tha  
 Is Josie correct? f

- 9) What is the val

- 10) Select all the w  
 a) twenty eight  
 b)  $200,000 + 8,000$   
 c) 2 thousands  
 d)  $20,000 + 8,000$   
 e) two hundred

- 11) Create a nume  
 times the value of

- 12) When rounded  
 become 290. Wha

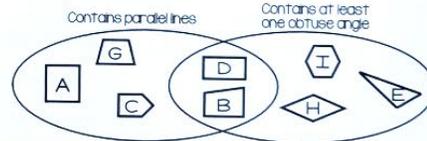
- 13) At her concert  
 Taylor Swift. That  
 her concert in Tan  
 concert?

- 14) Jackie has 588  
 groups. How man

- 15) Identify if each  
 a)  $124 + 2 =$   
 b)  $359 + 3 =$   
 c)  $1045 + 6 =$

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Beginning of the Year 4th Grade Math Pre-test

- 1) Examine the Venn Diagram below. Do you agree or disagree with the work? Explain



- Fill in each blank with sometimes, never, or always.  
 2) A rhombus is \_\_\_\_\_ a parallelogram.  
 3) A rectangle is \_\_\_\_\_ a square.

- 5) Identify each attribute below.

- 6) Write yes or no if the line represents a line of symmetry.

- 7) Identify how many of each angle are found in the shapes below.  

 Right Angles: \_\_\_\_\_ Acute Angles: \_\_\_\_\_ Obtuse Angles: \_\_\_\_\_



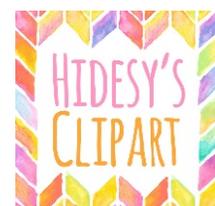
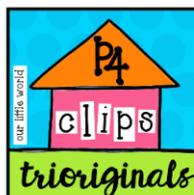
TANYA YERO

# 4TH GRADE

# Thank YOU!

This free resource includes a beginning of the year math pre-test, along with a matching end of the year post-test to track students growth. Graphs are included for data tracking. These assessments include questions that target procedural and conceptual understanding. Graphs are included with information on whether each question assesses procedural and conceptual so you can easily target student needs. Pinpoint exactly what your students need with these assessments!

## Clipart Credit:



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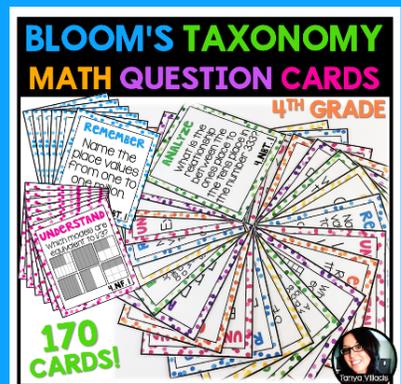
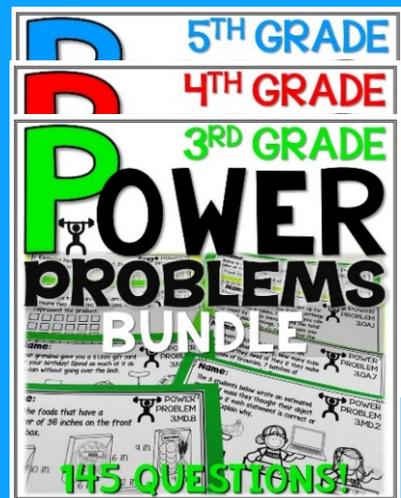
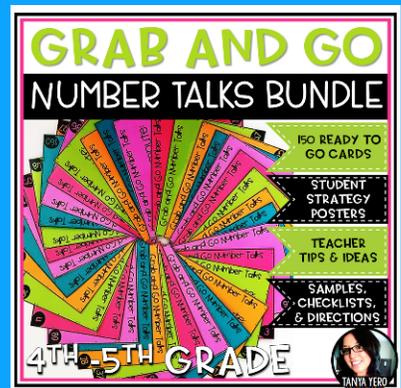
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# NEED MORE RESOURCES?

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Fourth grade

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Assesses Procedural & Conceptual Understanding

55 pages of resources

Fourth grade

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Measurement and Data Standards

Assesses Procedural & Conceptual Understanding

85 pages of resources

Fourth grade

## Complete bundle

## FEEDBACK FROM TEACHERS

"Tanya has created a wonderful, comprehensive resource here, complete with record-keeping which is often challenging to figure out the logistics of sometimes. From pretest to posttest and all the tasks in between, this is a must-have for intervention groups!"

"I LOVE this packet. I am using it to guide my small group instruction and by conducting the pre-test, I found that many students I thought had it, didn't. Thanks for the detailed packet!!"

"I love how everything is laid out! It's super helpful to have a chart to tell you what type of misunderstanding the student has on the pretest."

# Item Analysis Data Sheet Student Name: \_\_\_\_\_

4<sup>th</sup> Grade Beginning of the Year Pre-Test

Questions	Standard	Procedural Understanding	Conceptual Understanding	(M) Missed
#1	4.G.2		X	
#2	4.G.2		X	
#3	4.G.2		X	
#4	4.G.3		X	
#5	4.G.1	X		
#6	4.G.3	X		
#7	4.G.1	X		
#8	4.NBT.1		X	
#9	4.NBT.1	X		
#10	4.NBT.2	X		
#11	4.NBT.1		X	
#12	4.NBT.3		X	
#13	4.NBT.4		X	
#14	4.NBT.6		X	
#15	4.NBT.6	X		
#16	4.NBT.5		X	
#17	4.OA.1	X		
#18	4.OA.2		X	
#19	4.OA.3		X	
#20	4.OA.2	X		

# Item Analysis Data Sheet Student Name: \_\_\_\_\_

4<sup>th</sup> Grade Beginning of the Year Pre-Test

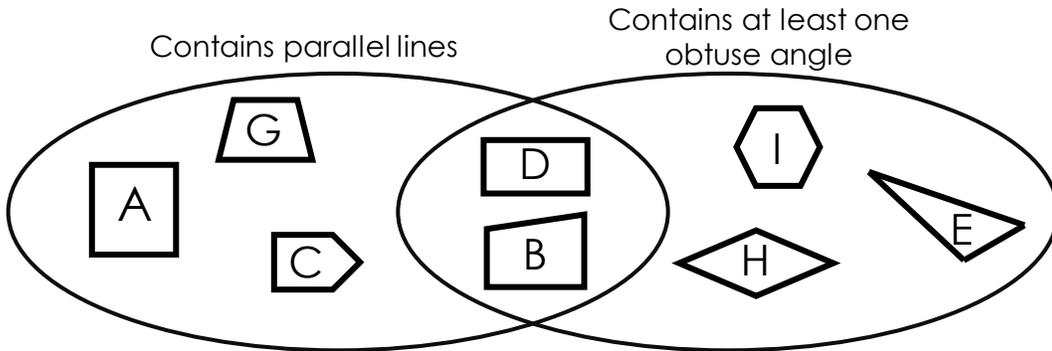
?'s	Standard	Procedural Understanding	Conceptual Understanding	(M) Missed
#21	4.OA.5	X		
#22	4.OA.5		X	
#23	4.OA.4	X		
#24	4.OA.4	X		
#25	4.OA.4	X		
#26	4.NF.1		X	
#27	4.NF.2	X		
#28	4.NF.5	X		
#29	4.NF.3		X	
#30	4.NF.3		X	
#31	4.NF.4	X		
#32	4.NF.6		X	
#33	4.NF.7		X	
#34	4.MD.1 & .2		X	
#35	4.MD.1	X		
#36	4.MD.3		X	
#37	4.MD.3	X		
#38	4.MD.5		X	
#39	4.MD.7	X		
#40	4.MD.4		X	
#41	4.MD.4		X	

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Beginning of the Year 4<sup>th</sup> Grade Math Pre-test

1.) Examine the Venn Diagram below. Do you agree or disagree with the work? Explain.



\_\_\_\_\_

Fill in each blank with sometimes, never, or always.

2.) A rhombus is \_\_\_\_\_ a parallelogram.

3.) A rectangle is \_\_\_\_\_ a square.

5.) Identify each attribute below.

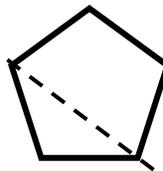


\_\_\_\_\_

\_\_\_\_\_

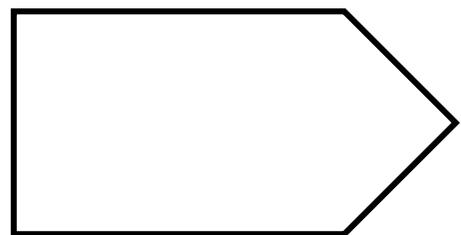
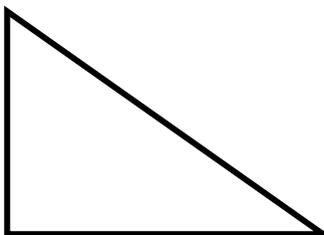
\_\_\_\_\_

6.) Write yes or no if the line represents a line of symmetry.



\_\_\_\_\_

7.) Identify how many of each angle are found, total, in the shapes below.

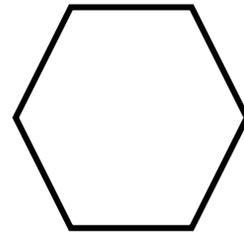


Right Angles: \_\_\_\_\_

Acute Angles: \_\_\_\_\_

Obtuse Angles: \_\_\_\_\_

4.) How many lines of symmetry does the shape below have?



\_\_\_\_\_

8.) Josie says that the 8 in 185 is 10 times greater than the 8 in 3,876. Is Josie correct? Explain.

9.) What is the value of the digit 3 in 24,350? \_\_\_\_\_

10.) Select all the ways to show 28,096.

- a.) twenty-eight thousand, ninety six
- b.)  $200,000 + 8,000 + 90 + 6$
- c.) 2 thousands + 8 thousands + 9 tens + 6 ones
- d.)  $20,000 + 8,000 + 90 + 6$
- e.) two hundred eighty thousand, ninety-six

11.) Create a number that has the digit 4 in the place value that is 10 times the value of the 4 in 146,807.

12.) When rounded to the nearest tens, I become 290. What number could I be?

13.) At her concert in Pittsburg there were 47,236 fans to see Taylor Swift. That is 10,554 more fans than those who attended her concert in Tampa. How many people attended Taylor's Tampa concert?

14.) Jackie has 588 marbles. She wants to put them into three equal groups. How many marbles will be in each group? \_\_\_\_\_

15.) Identify if each equation will or will not have a remainder:

- a.)  $124 \div 2 =$                        Yes       No
- b.)  $359 \div 3 =$                        Yes       No
- c.)  $1,045 \div 6 =$                        Yes       No

16.) A clothing company has 24 shelves of new T-shirts. Each shelf holds 13 shirts. How many T-shirts does the company have in all?

\_\_\_\_\_

17.) Draw a model to represent 42 is 6 times as many as 7.

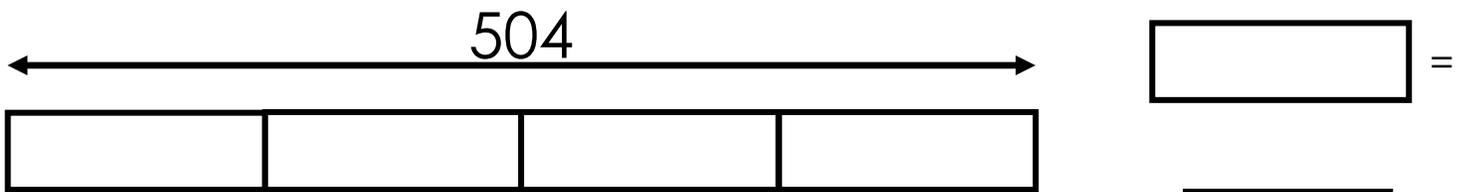
18.) Joey has 3 cookies. Abby has 2 cookies. Jennifer has 4 times as many cookies as Joey and Abby combined. How many cookies does Jennifer have?

\_\_\_\_\_

19.) A florist is putting together flowers bouquets for people at a hospitals. If she has 156 flowers and each needs 8 flowers, how many complete bouquets can she make?

\_\_\_\_\_

20.) Write an equation for the following model:



21.) Complete the pattern below: 2, 4, 3, 5, 4, 6, 5, 7, 6, \_\_\_\_\_, \_\_\_\_\_

22.) Create a pattern for the following rule. List 6 numbers.  
**Rule:** Multiply by two, then subtract three starting with the number 5.

\_\_\_\_\_

23.) Identify each number as prime or composite:

- |        |                                |                                    |
|--------|--------------------------------|------------------------------------|
| a.) 24 | <input type="checkbox"/> Prime | <input type="checkbox"/> Composite |
| b.) 13 | <input type="checkbox"/> Prime | <input type="checkbox"/> Composite |
| c.) 19 | <input type="checkbox"/> Prime | <input type="checkbox"/> Composite |
| d.) 50 | <input type="checkbox"/> Prime | <input type="checkbox"/> Composite |

24.) Select all the numbers that are factors of the number 12.

a.) 24

c.) 6

e.) 12

g.) 36

b.) 1

b.) 48

f.) 2

h.) 4

25.) What are the multiples of 12? List the first five.

---

26.) Leslie made 2 pizzas. She cut the first pizza into 10 equal pieces. Her family ate 6 slices. For the second pizza she wants to cut the pizza into fewer slices, and she wants her family to eat the same amount as the first pizza. How should Leslie cut the second pizza? How are the slices in each pizza different?

27.) Compare using  $<$ ,  $>$ , or  $=$ .

28.) Solve.

$$\frac{3}{4} \bigcirc \frac{6}{8}$$

$$\frac{5}{9} \bigcirc \frac{3}{9}$$

$$\frac{22}{100} + \frac{3}{10} = \underline{\hspace{2cm}}$$

29.) Landon has  $1\frac{2}{5}$  gallons of juice leftover from his party. After he gives his cousin some juice to take home, he has  $\frac{3}{5}$  of a gallon left. How much juice did Landon give his cousin?

---

30.) Thomas used  $\frac{1}{3}$  of a cup of flour and  $\frac{3}{6}$  of a cup of sugar to make a silk chocolate pie. How many cups of ingredients did he use in all?

---

31.) Myranda uses  $\frac{2}{3}$  of cup of caramel to bake one apple pie. If she's baking 4 apple pies for the holidays, how many cups of caramel will she need? Write a multiplication equation to solve.

---

32.) Select true or false for each statement:

- a.)  $7/10$  is equivalent to  $0.07$   True  False
- b.)  $1.55$  is equivalent to  $155/100$   True  False
- c.)  $0.20$  is equivalent to  $2/100$   True  False
- d.)  $0.4$  is equivalent to  $4/100$   True  False

33.) Compare.

$\frac{2}{10}$  ○  $0.04$

Seven tenths ○ Thirteen hundredths

34.) Jackson ran for 7 yards, 3 feet, and 4 inches. His sister Jackie ran for 36 feet, and 2 inches. Who ran farther? Explain.

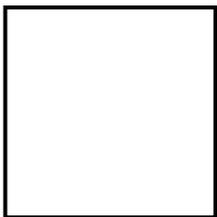
35.) Solve:

5 quarts = \_\_\_\_\_ cups

3 gallons = \_\_\_\_\_ pints

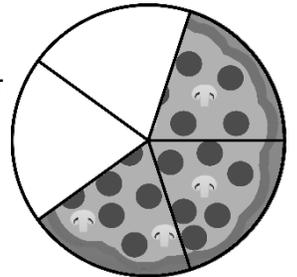
36.) What are the dimensions of a rectangle with an area of  $36 \text{ cm}^2$  and a perimeter of  $30 \text{ cm}$ ?

37.) Find the area and perimeter of the shape:

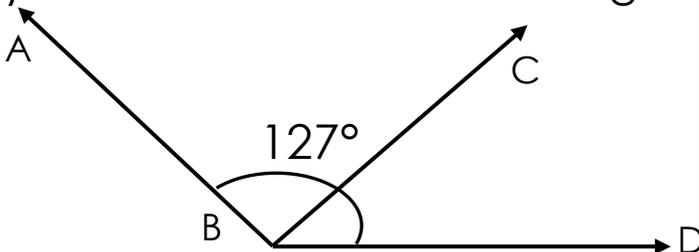


$L = 5 \text{ in.}$

38.) Kim ordered a pizza. The missing slices are what she ate. How many degrees of the circle did Kim eat?



39.) What is the measure of degrees in  $\angle CBD$  if  $\angle ABC$  is  $88^\circ$ ?



40.) At a butterfly farm they have various caterpillars measuring at different lengths. Create a line plot to show the lengths of each caterpillars.

Length of caterpillars (in inches)

$\frac{1}{6}$   $\frac{3}{6}$   $\frac{5}{6}$   $\frac{1}{6}$   $\frac{2}{6}$   $\frac{1}{6}$   $\frac{3}{6}$   $\frac{1}{6}$   $\frac{5}{6}$

41.) Mrs. Greene was cooking Thanksgiving dinner. Use the information below to create a line plot showing how many cups of ingredients she used.

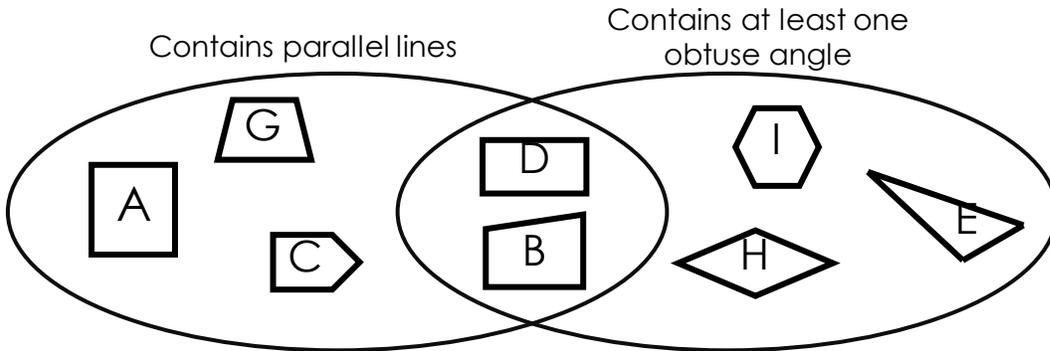
- 5 recipes called for  $\frac{3}{4}$  of a cup of water.
- The most any recipe required was 1 cup of vegetable oil.
- The apple pie Mrs. Greene made needed  $\frac{1}{4}$  of a cup of cinnamon. She also used another  $\frac{1}{4}$  of a cup of cinnamon for the sweet potatoes.
- No recipe used  $\frac{1}{2}$  of a cup of any ingredient.
- 3 less recipes than the recipes that used water needed  $\frac{1}{4}$  of a cup of chicken broth.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

End of the Year 4<sup>th</sup> Grade Math Post-test

1.) Examine the Venn Diagram below. Do you agree or disagree with the work? Explain



\_\_\_\_\_

Fill in each blank with sometimes, never, or always.

2.) A rhombus is \_\_\_\_\_ a parallelogram.

3.) A rectangle is \_\_\_\_\_ a square.

4.) How many lines of symmetry does the shape below have?

5.) Identify each attribute below.



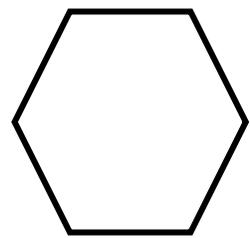
\_\_\_\_\_



\_\_\_\_\_

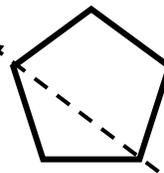


\_\_\_\_\_



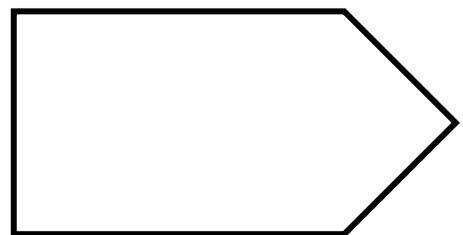
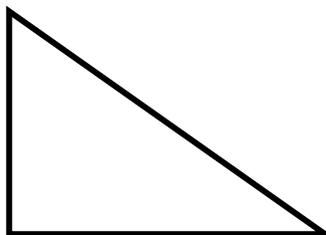
\_\_\_\_\_

6.) Write yes or no if the line represents a line of symmetry.



\_\_\_\_\_

7.) Identify how many of each angle are found, total, in the shapes below.



Right Angles: \_\_\_\_\_

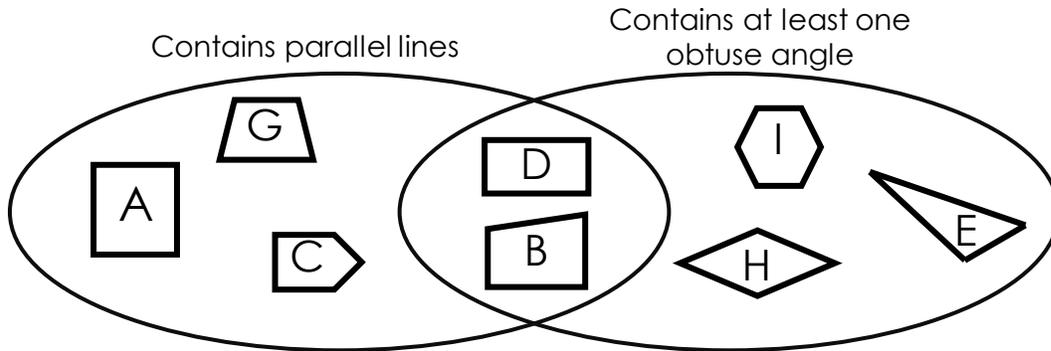
Acute Angles: \_\_\_\_\_

Obtuse Angles: \_\_\_\_\_

Name: **Answer Key** Date:

Beginning of the Year 4<sup>th</sup> Grade Math Pre-test

1.) Examine the Venn Diagram below. Do you agree or disagree with the work? Explain



D belongs under "contains parallel lines, while G and C belong in overlapping area. Shapes I and H also belong in the overlapping area.

Fill in each blank with sometimes, never, or always.

2.) A rhombus is always a parallelogram.

3.) A rectangle is never a square.

4.) How many lines of symmetry does the shape below have?

Six

5.) Identify each attribute below.



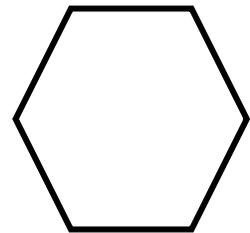
ray



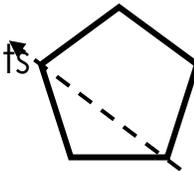
line



Line segment

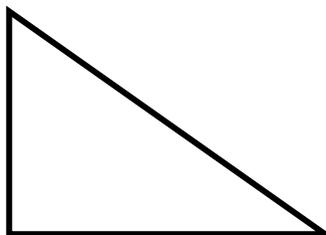


6.) Write yes or no if the line represents a line of symmetry.



no

7.) Identify how many of each angle are found, total, in the shapes below.



Right Angles: 3

Acute Angles: 5

Obtuse Angles: 4

8.) Josie says that the 8 in 185 is 10 times greater than the 8 in 3,876. Is Josie correct? Explain.

Josie is incorrect. The 8 in 3,876 is 10 times greater than the 8 in 185.

9.) What is the value of the digit 3 in 24,350?

300

10.) Select all the ways to show 28,096.

a.) twenty-eight thousand, ninety-six

b.)  $200,000 + 8,000 + 90 + 6$

c.) 2 thousands + 8 thousands + 9 tens + 6 ones

d.)  $20,000 + 8,000 + 90 + 6$

e.) two hundred eighty thousand, ninety-six

11.) Create a number that has the digit 4 in the place value that is 10 times the value of the 4 in 146,807.

467,983

12.) When rounded to the nearest tens, I become 290. What number could I be?

285-294

13.) At her concert in Pittsburg there were 47,236 fans to see Taylor Swift. That is 10,554 more fans than those who attended her concert in Tampa. How many people attended Taylor's Tampa concert?

36,682 fans

14.) Jackie has 588 marbles. She wants to put them into three equal groups. How many marbles will be in each group?

196 marbles

15.) Identify if each equation will or will not have a remainder:

a.)  $124 \div 2 =$   Yes  No

b.)  $359 \div 3 =$   Yes  No

c.)  $1,045 \div 6 =$   Yes  No

16.) A clothing company has 24 shelves of new T-shirts. Each shelf holds 13 shirts. How many T-shirts does the company have in all?

312 shirts

17.) Draw a model to represent 42 is 6 times as many as 7.

@@@@@@ @@@@@@ @@@@@@ @@@@@@  
@@@@@@ @@@@@@ @@@@@@

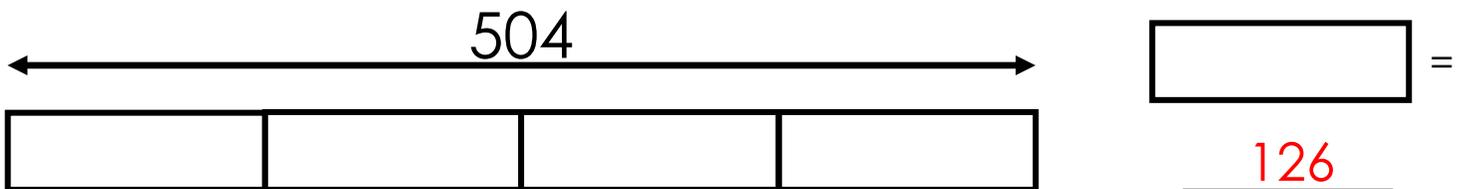
18.) Joey has 3 cookies. Abby has 2 cookies. Jennifer has 4 times as many cookies as Joey and Abby combined. How many cookies does Jennifer have?

20 cookies

19.) A florist is putting together flowers bouquets for people at a hospitals. If she has 156 flowers and each needs 8 flowers, how many complete bouquets can she make?

19 bouquets

20.) Write an equation for the following model:



21.) Complete the pattern below: 2, 4, 3, 5, 4, 6, 5, 7, 6, 8, 7

22.) Create a pattern for the following rule. List 6 numbers

**Rule:** Multiply by two, then subtract three starting with the number five.

5, 10, 7, 14, 11, 22, 19

23.) Identify each number as prime or composite:

- |        |                                           |                                               |
|--------|-------------------------------------------|-----------------------------------------------|
| a.) 24 | <input type="checkbox"/> Prime            | <input checked="" type="checkbox"/> Composite |
| b.) 13 | <input checked="" type="checkbox"/> Prime | <input type="checkbox"/> Composite            |
| c.) 19 | <input checked="" type="checkbox"/> Prime | <input type="checkbox"/> Composite            |
| d.) 50 | <input type="checkbox"/> Prime            | <input checked="" type="checkbox"/> Composite |

24.) Select all the numbers that are factors of the number 12.

a.) 24

c.) 6

e.) 12

g.) 36

b.) 1

b.) 48

f.) 2

h.) 4

25.) What are the multiples of 12? List the first five.

12: 24, 36, 48, 60, 72

26.) Leslie made 2 pizzas. She cut the first pizza into 10 equal pieces. Her family ate 6 slices. For the second pizza she wants to cut the pizza into fewer slices, and she wants her family to eat the same amount as the first pizza. How should Leslie cut the second pizza? How are the slices in each pizza different?

She could cut the pizza into fifths and her family would eat 3 slices. The slices would be larger than the slices that were cut into tenths.

27.) Compare using  $<$ ,  $>$ , or  $=$ .

$$\frac{3}{4} \text{ ( = ) } \frac{6}{8}$$

$$\frac{5}{9} \text{ ( > ) } \frac{3}{9}$$

28.) Solve.

$$\frac{22}{100} + \frac{3}{10} = \underline{\underline{\frac{52}{100}}}$$

29.) Landon has  $1\frac{2}{5}$  gallons of juice leftover from his party. After he gives his cousin some juice to take home he has  $\frac{3}{5}$  of a gallon left. How much juice did Landon give his cousin?

$\frac{4}{5}$  of a gallon

30.) Thomas used  $\frac{1}{3}$  of a cup of flour and  $\frac{3}{6}$  of a cup of sugar to make a silk chocolate pie. How many cups of ingredients did he use in all?

$\frac{5}{6}$  of a cup of ingredients

31.) Myranda uses  $\frac{2}{3}$  of a cup of caramel to bake one apple pie. If she's baking 4 apple pies for the holidays, how many cups of caramel will she need? Write a multiplication equation to solve.

$2\frac{2}{3}$  cups

32.) Select true or false for each statement:

- a.)  $7/10$  is equivalent to  $0.07$        True       False
- b.)  $1.55$  is equivalent to  $155/100$        True       False
- c.)  $0.20$  is equivalent to  $2/100$        True       False
- d.)  $0.4$  is equivalent to  $4/100$        True       False

33.) Compare.

$$\frac{2}{10} > 0.04$$

Seven tenths  $>$  Thirteen hundredths

34.) Jackson ran for 7 yards, 3 feet, and 4 inches. His sister Jackie ran for 36 feet, and 2 inches. Who ran farther? Explain.

Jackie ran farther. 36 feet equals 12 yards and Jackson only ran 8 yards.

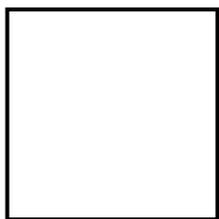
35.) Solve:

$$5 \text{ quarts} = \underline{20} \text{ cups}$$

$$3 \text{ gallons} = \underline{24} \text{ pints}$$

36.) What are the dimensions of a rectangle with an area of  $36 \text{ cm}^2$  and a perimeter of  $30 \text{ cm}$ ?  
Length = 12 cm  
Width = 3 cm

37.) Find the area and perimeter of the shape:

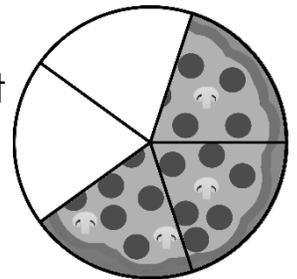


$L = 5 \text{ in.}$

Area =  $25 \text{ in.}^2$

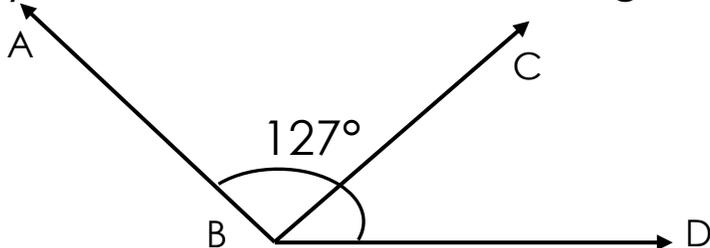
Perimeter =  $20 \text{ in.}$

38.) Kelly ordered a pizza. The missing slices are what she ate. How many degrees of the circle did Kelly eat?



144 degrees

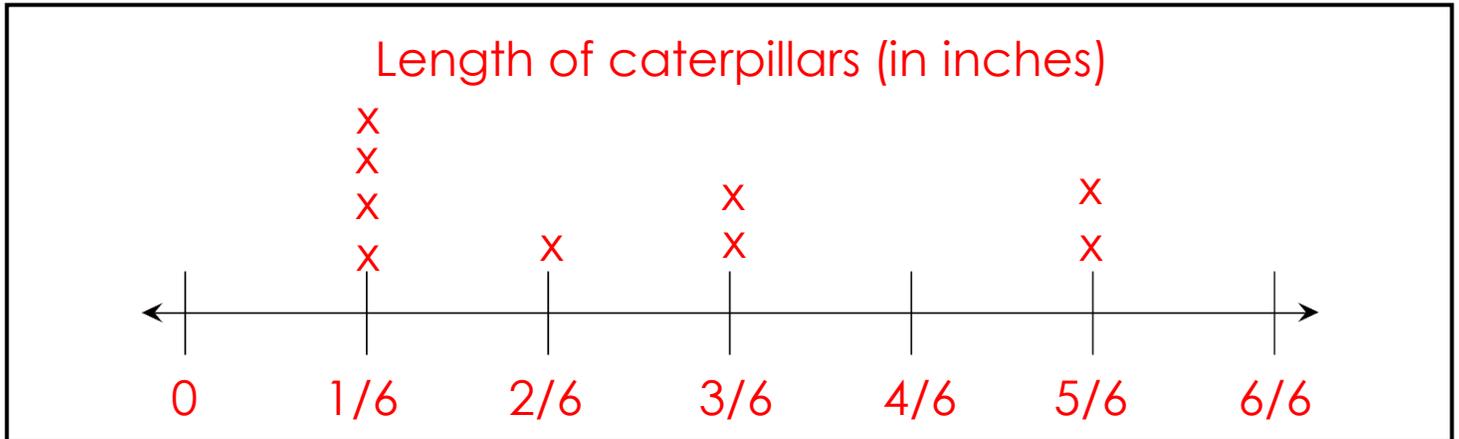
39.) What is the measure of degrees in  $\angle CBD$  if  $\angle ABC$  is  $88^\circ$ ?



39 degrees

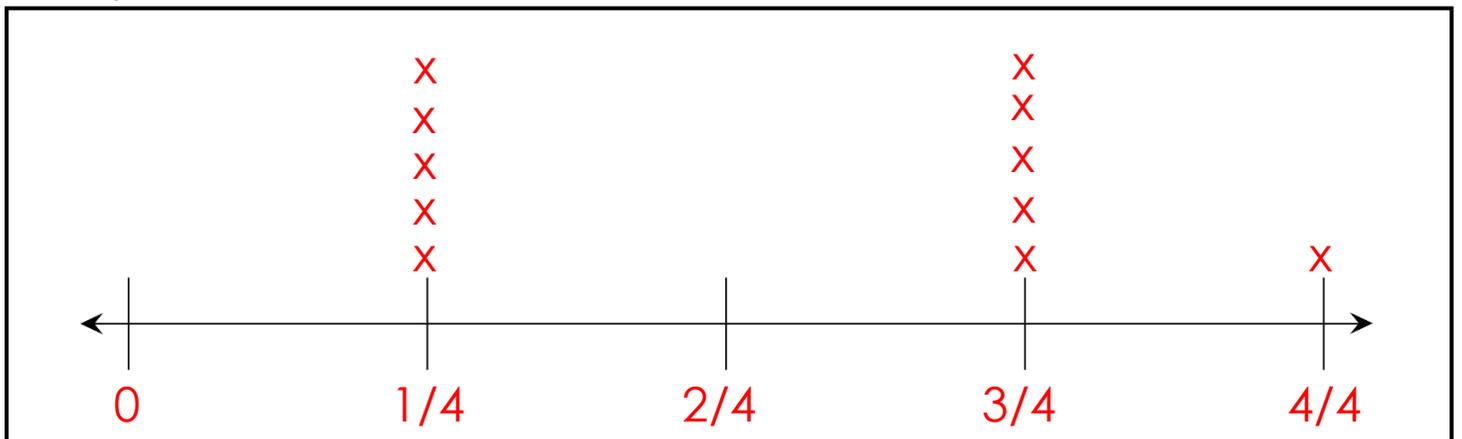
40.) At a butterfly farm they have various caterpillars measuring at different lengths. Create a line plot to show the lengths of each caterpillars.

Length of caterpillars (in inches)								
1/6	3/6	5/6	1/6	2/6	1/6	3/6	1/6	5/6



41.) Mrs. Greene was cooking Thanksgiving dinner. Use the information below to create a line plot showing how many cups of ingredients she used.

- 5 recipes called for  $\frac{3}{4}$  of a cup of water.
- The most any recipe required was 1 cup of vegetable oil.
- The apple pie Mrs. Greene made needed  $\frac{1}{4}$  of a cup of cinnamon. She also used another  $\frac{1}{4}$  of a cup of cinnamon for the sweet potatoes.
- No recipe used  $\frac{1}{2}$  of a cup of any ingredient.
- 3 less recipes than the recipes that used water needed  $\frac{1}{4}$  of a cup of chicken broth.



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