

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

Item Analysis Data Sheet
3rd Grade Beginning of the Year Pre-Test

Student Name: _____

Q#s	Standard	Procedural Understanding	Conceptual Understanding	(M) Missed
#1	3MD.3			
#2	3MD.3			
#3	3MD.3			
#4	3MD.7			
#5	3MD.5			
#6	3MD.8			
#7	3MD.8			
#8	3G.1			
#9	3E			
#10	3C			
#11	3			
#12				
#13				
#14				
#15				
#16				
#17				
#18				
#19				
#20				
#21				
#22				
#23				
#24				
#25				
#26				
#27				
#28				
#29				
#30				
#31				
#32				
#33				
#34				
#35				



TRACK STUDENT DATA

Item Analysis Data Sheet
3rd Grade Beginning of the Year Pre-Test

Name: _____ Date: _____

Beginning of the Year 3rd Grade Math Pre-test

1) Highlight all the numbers on the number line that round to 500 when rounding to the nearest hundred.

400 450 500 550 600

2) Kelsey ran 365 meters around the track. Steve ran 239 meters, and Penny ran 196 meters. How many total meters did the children run in all?

3) Solve. $7 \times 10 =$ _____ $2 \times 20 =$ _____

4)
$$\begin{array}{r} 1,000 \\ - 562 \\ \hline \end{array}$$

5)
$$\begin{array}{r} 398 \\ + 764 \\ \hline \end{array}$$

6) Round 754 to the nearest ten. _____

7) Miss Duncan made a batch of cookies. If one batch has 12 cookies and she made 10 batches, how many cookies did she make in all? _____

8) Which figures represents $\frac{1}{5}$?

17) What time is shown on the clock? _____

18) What is the length of the ruler? _____

19) What is the difference between the number of hot lunches ordered in one day? _____

20) Mrs. Smith is a baker. She baked 60 different baked goods. How many baked goods did she bake in all? _____

21) Use the bar graph. How many hot lunches were sold on Tuesday and Wednesday? _____

22) What is the difference between the number of hot lunches ordered in one day? _____

23) NUMBER OF BOOKS READ

Month	Books Read
JANUARY	4
FEBRUARY	3
MARCH	2

24) Judy sorted the shapes into groups. How many acute angles are there? _____

25) Find the area for the L-shaped figure.

26) Find the perimeter of the grid figure.

27) Create two arrays for the number 12.

28) Jeff has 5 pencils. How many pencils does he have in all? _____

29) Write a division sentence for the array of apples.

30) What multiplication sentence goes with the array of dots?

31) Mrs. Jackson bought 4 packs of glue sticks. How many glue sticks did she buy in all? _____

32) $9 \times 4 =$ _____

33) $49 \div ? = 7$? = _____

34) Circle the shape that is a square.

35) Circle the fraction that is $\frac{1}{2}$.

36) Put a square on the number line at the number 1.

37) For #12-13, compare the fractions.

38) Henry drew the circle into 4 equal parts. How many parts are shaded? _____

39) What fraction of the circle is shaded? _____

40) A librarian can sort books into 5 equal groups. How many books can she sort in all? _____



3RD 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:



THANK YOU FOR YOUR PURCHASE!



TANYA YERO



CONNECT WITH ME!



TERMS OF USE

Copyright © Tanya Yero Teaching. All rights reserved by creator. This product is to be used by the original downloader only. Copying for more than one teacher, classroom, team, grade level, department, school, or school system is prohibited. This product may not be distributed or displayed digitally for public view. Failure to comply is a copyright infringement and a violation of the Digital Millennium Copyright Act (DMCA). Clipart and elements found in this PDF are copyrighted and cannot be extracted and used outside of this file without permission or license. Please contact me if you wish to be granted special authorizations.

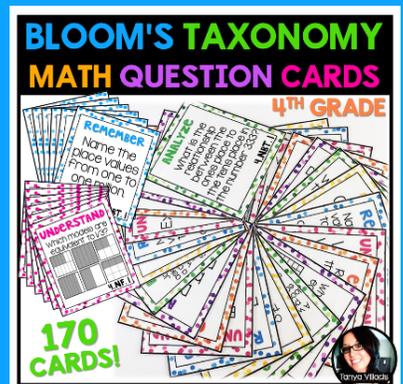
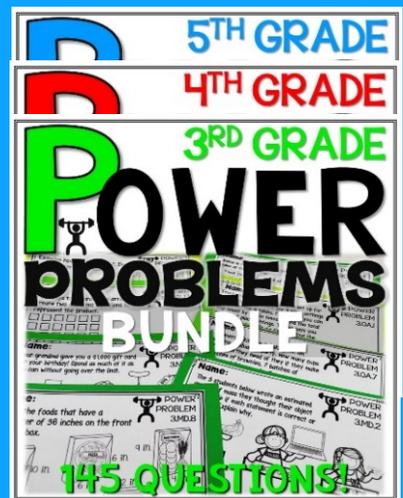
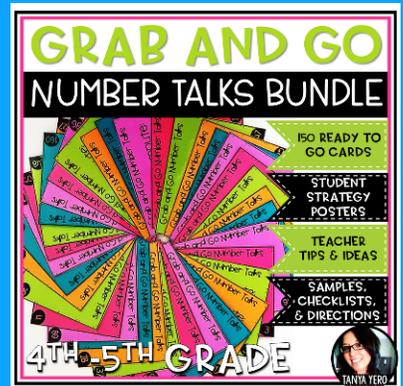
YOU MAY:

- Use this item for personal use. The purchase of this product is good for one classroom.
- Review, pin, and/or provide feedback of this product online. Please include a link.
- Purchase additional licenses or share store link with others and/or online.

YOU MAY NOT:

- Make copies, email, and/or share this resource
- Post this resource or any portion of this product online.
- Share, sell, or claim this product as your own.
- Use any part of this product when creating your own resources for sale online.

CHECK OUT MY OTHER PRODUCTS!



NEED MORE RESOURCES?

INTERVENTION FOR THE WHOLE YEAR:

Our Intervention resources includes:

- Pre/post-tests for every domain
- Practice pages for both procedural and conceptual understanding for each standard
- Quick check assessments for each standard
- Graphing templates
- Answer Keys
- Available for K-8th grade

[CLICK HERE TO SHOP](#)

Math Intervention

TANYA YERO Teaching!

3rd grade

BUY NOW
& SAVE
\$8.00!

Math Intervention
Measurement and Data Standards
Assesses Procedural & Conceptual Understanding
130 pages of resources!
»»» Third grade «««

Math Intervention
Numbers & Operations in Base Ten
Assesses Procedural & Conceptual Understanding
55 pages of resources!
»»» Third grade «««

Math Intervention
Geometry Standards
Assesses Procedural & Conceptual Understanding
45 pages of resources!
»»» Third grade «««

Math Intervention
Fraction Standards
Assesses Procedural & Conceptual Understanding
50 pages of resources!
»»» Third grade «««

Math Intervention
Operations & Algebraic Thinking
Assesses Procedural & Conceptual Understanding
100 pages of resources!
»»» Third grade «««

complete bundle

NEED MORE RESOURCES?

Math Intervention

TANYA YERO Teaching

3rd grade

**BUY NOW
& Save
\$8.00!**

Math Intervention
Measurement and Data Standards
Assesses Procedural & Conceptual Understanding
130 pages of resources
»»» Third grade «««

Math Intervention
Numbers & Operations in Base Ten
Assesses Procedural & Conceptual Understanding
55 pages of resources
»»» Third grade «««

Math Intervention
Geometry Standards
Assesses Procedural & Conceptual Understanding
45 pages of resources
»»» Third grade «««

Math Intervention
Fraction Standards
Assesses Procedural & Conceptual Understanding
50 pages of resources
»»» Third grade «««

Math Intervention
Operations & Algebraic Thinking
Assesses Procedural & Conceptual Understanding
100 pages of resources
»»» Third 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

3rd Grade Beginning of the Year Pre-Test

Student Name: _____

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

Item Analysis Data Sheet

3rd Grade Beginning of the Year Pre-Test

Student Name: _____

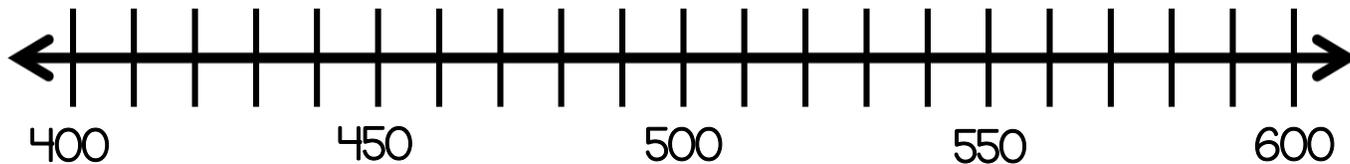
?s	Standard	Procedural Understanding	Conceptual Understanding	(M) Missed
#21	3.MD.3		X	
#22	3.MD.3		X	
#23	3.MD.3	X		
#24	3.MD.7		X	
#25	3.MD.5	X		
#26	3.MD.8	X		
#27	3.MD.8	X		
#28	3.G.1		X	
#29	3.G.1		X	
#30	3.OA.1	X		
#31	3.OA.2		X	
#32	3.OA.2		X	
#33	3.OA.1	X		
#34	3.OA.3	X		
#35	3.OA.4	X		
#36	3.OA.4	X		
#37	3.OA.4	X		
#38	3.OA.4	X		
#39	3.OA.3		X	
#40	3.OA.5		X	

Name: _____

Date: _____

Beginning of the Year 3rd Grade Math Pre-test

1.) Highlight all the numbers on the number line that round to 500 when rounding to the nearest hundred.



2.) Kelsey ran 365 meters around the track. Steve ran 239 meters, and Penny ran 196 meters. How many total meters did the children run in all?

3.) Solve. $7 \times 10 =$ _____

$2 \times 20 =$ _____

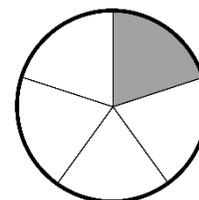
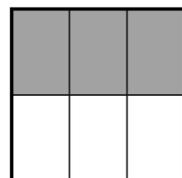
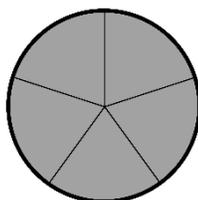
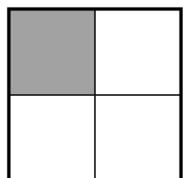
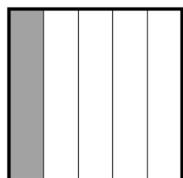
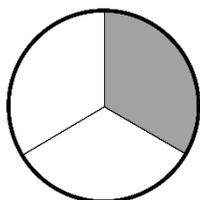
4.)
$$\begin{array}{r} 1,000 \\ - 562 \\ \hline \end{array}$$

5.)
$$\begin{array}{r} 398 \\ + 764 \\ \hline \end{array}$$

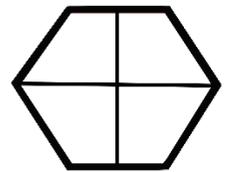
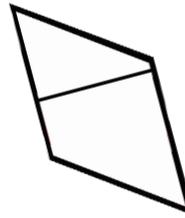
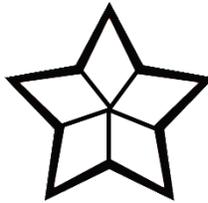
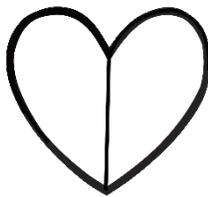
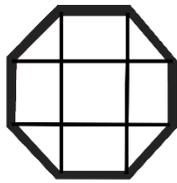
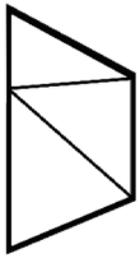
6.) Round 754 to the nearest ten.

7.) Miss Duncan made a batch of cookies. If one batch has 12 cookies and she made 10 batches, how many cookies did she make in all? _____

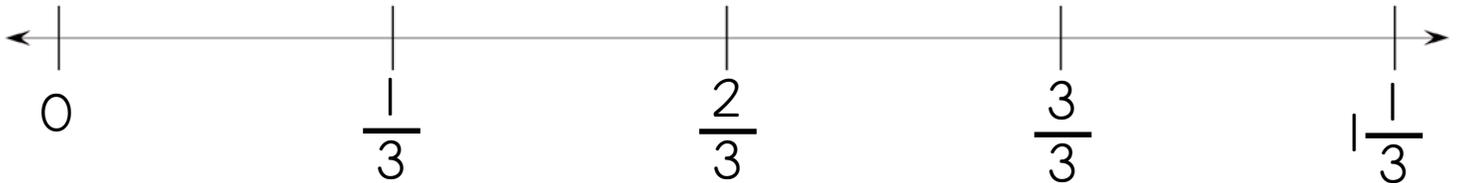
8.) Which figures represents $\frac{1}{5}$?



q.) Circle the shapes that are divided equally.



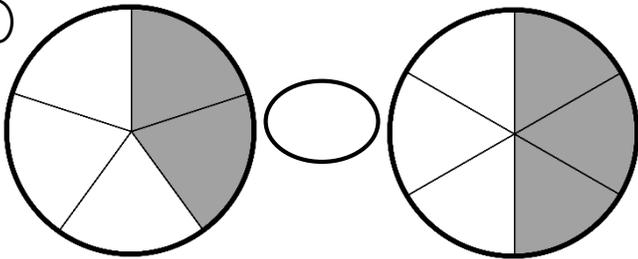
10.) Circle the fraction that is equal to 1.



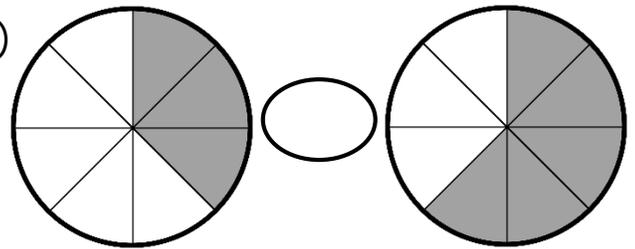
11.) Put a square around the fraction that is equivalent to $\frac{4}{3}$ on the number line above.

For #12-13, compare using $<$, $>$, or $=$.

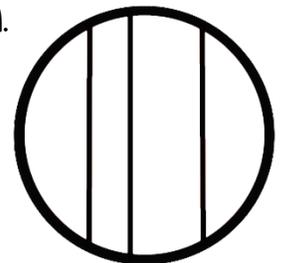
12.)



13.)



14.) Henry drew the circle below. He says he divided the circle into 4 equal parts. Do you agree or disagree. Explain.



15.) What fraction of the cupcake is one piece? Explain.

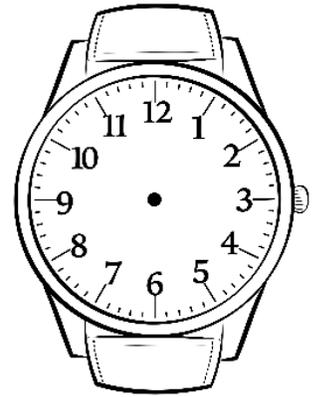


16.) A librarian can fit 40 books in one box. If she packed 3 boxes, how many books did she pack in all?

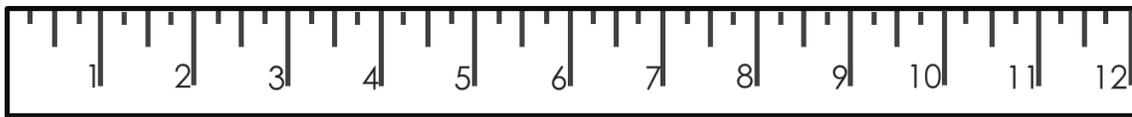
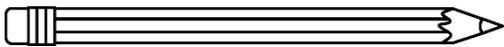
17.) What time is shown on the clock?



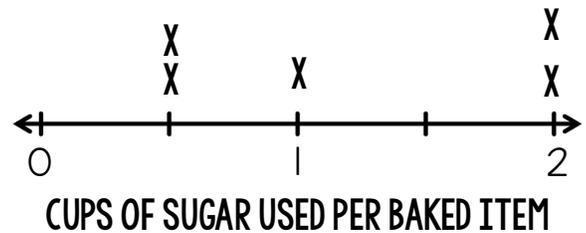
18.) Leslie starts dance practice at 7:04. Her practice lasts for 37 minutes. Complete the clock to show what time Leslie finished dance practice.



19.) What is the length of the pencil below? _____

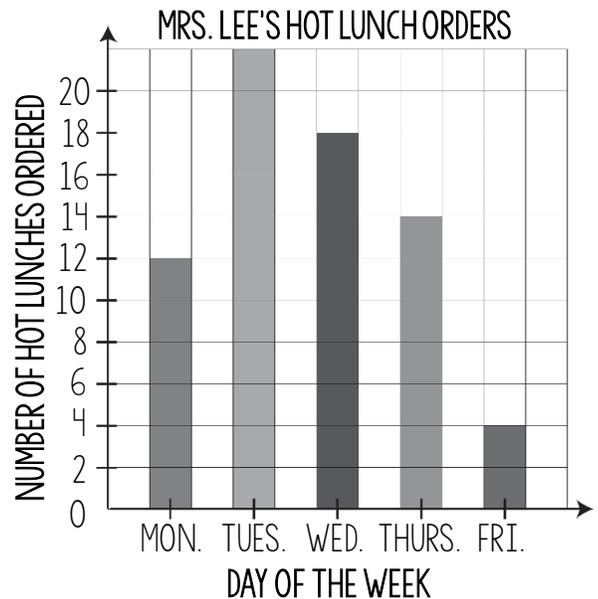


20.) Mrs. Smith is a baker. She prepared different baked goods for a party. How many baked goods called for $\frac{1}{2}$ a cup of sugar?



21.) Use the bar graph.

How many hot lunches were ordered on Tuesday and Wednesday in all?



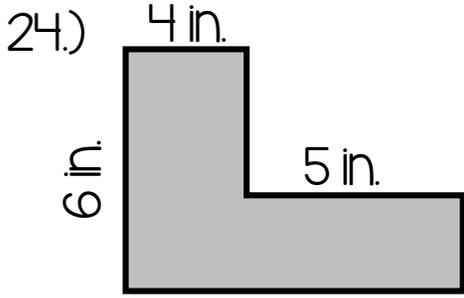
22.) What is the difference in the largest number of hot lunches ordered in one day and the least number of hot lunches ordered in one day?

23.) NUMBER OF BOOKS READ PER MONTH BY JACKIE

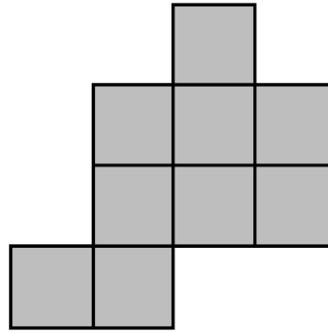
JANUARY	
FEBRUARY	
MARCH	

If = 4 BOOKS, what is the difference in the number of books Jackie read in January and March?

Find the area for the shape below.

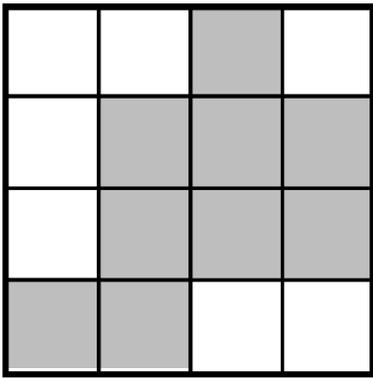


25.)

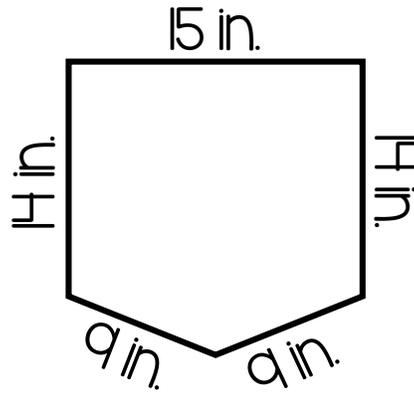


Find the perimeter of each shape below.

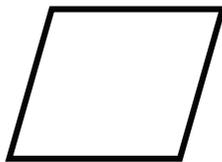
26.)



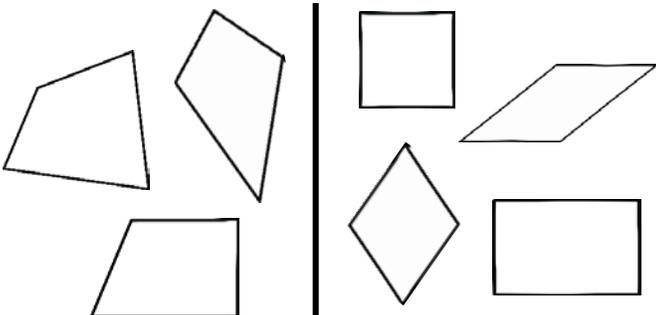
27.)



28.) What do these shapes have in common?



29.) Judy sorted the shapes below using a rule. What is the rule Judy followed?



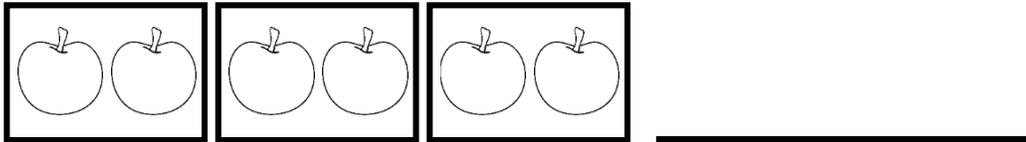
30.) Create two arrays for 3×6 .



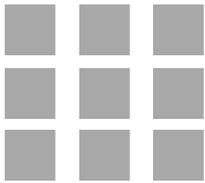
31.) Jeff has 15 pencils. He wants to put the pencils into 3 equal groups. How many pencils should Jeff put in each group? $15 \div 3 =$ _____



32.) Write a division sentence for the picture below.



33.) What multiplication sentence does the array represent?



Multiplication sentence: _____

Answer: _____

34.) Mrs. Jackson bought 40 glue sticks. Each pack had 5 glue sticks. How many packs of glue sticks did Mrs. Jackson purchase? _____

35.) $9 \times 4 =$ _____

36.) $8 \times 7 =$ _____

37.) $49 \div ? = 7$ $? =$ _____

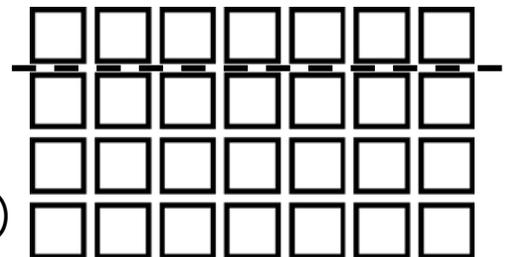
38.) $n \div 6 = 9$ $n =$ _____

39.) Patricia bought 27 flowers from the farmer's market. She wants to put the flowers equally into 3 vases. How many flowers will she put in 1 vase? _____

40.) Lara was asked to solve 7×4 . She decided to split the array to make solving easier.

Help Lara finish the expression to represent the array.

$(3 \times \square) + (\square \times 7)$

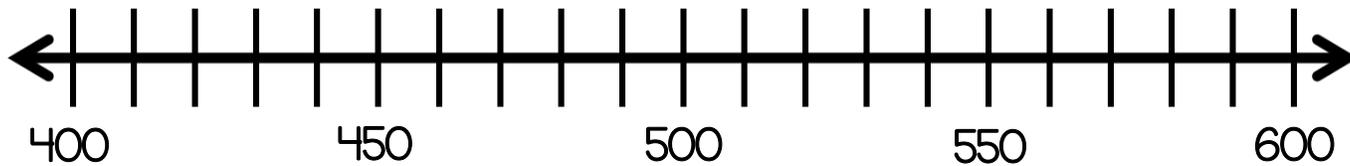


Name: _____

Date: _____

End of The Year 3rd Grade Math Pre-test

1.) Highlight all the numbers on the number line that round to 500 when rounding to the nearest hundred.



2.) Kelsey ran 365 meters around the track. Steve ran 239 meters, and Penny ran 196 meters. How many total meters did the children run in all?

3.) Solve. $7 \times 10 =$ _____

$2 \times 20 =$ _____

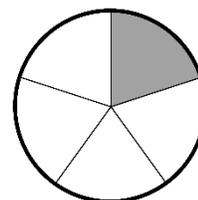
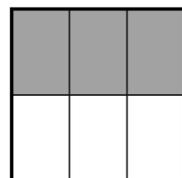
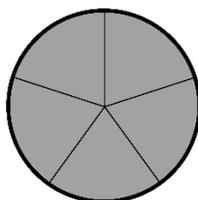
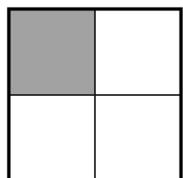
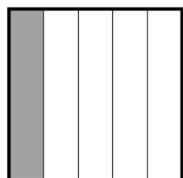
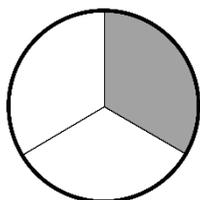
4.)
$$\begin{array}{r} 1,000 \\ - 562 \\ \hline \end{array}$$

5.)
$$\begin{array}{r} 398 \\ + 764 \\ \hline \end{array}$$

6.) Round 754 to the nearest ten.

7.) Miss Duncan made a batch of cookies. If one batch has 12 cookies and she made 10 batches, how many cookies did she make in all? _____

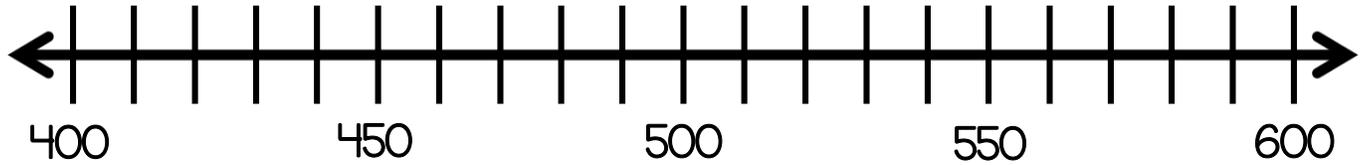
8.) Which figures represents $\frac{1}{5}$?



Name: **Answer Key** Date:

Beginning of the Year 3rd Grade Math Pre-test

1.) Highlight all the numbers on the number line that round to 500 when rounding to the nearest hundred. **450 - 549**



2.) Kelsey ran 365 meters around the track. Steve ran 239 meters, and Penny ran 196 meters. How many total meters did the children run in all?

800 meters

3.) Solve. $7 \times 10 =$ **70**

$2 \times 20 =$ **40**

4.)
$$\begin{array}{r} 1,000 \\ - 562 \\ \hline \end{array}$$
438

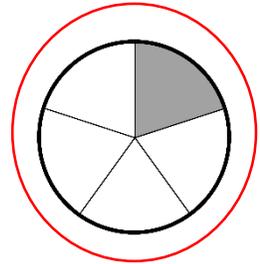
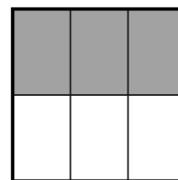
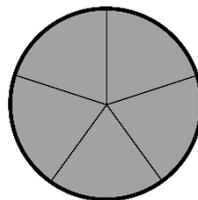
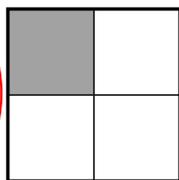
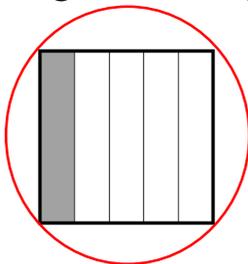
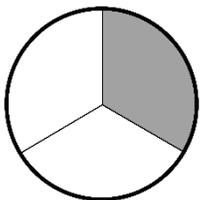
5.)
$$\begin{array}{r} 398 \\ + 764 \\ \hline \end{array}$$
1,162

6.) Round 754 to the nearest ten.

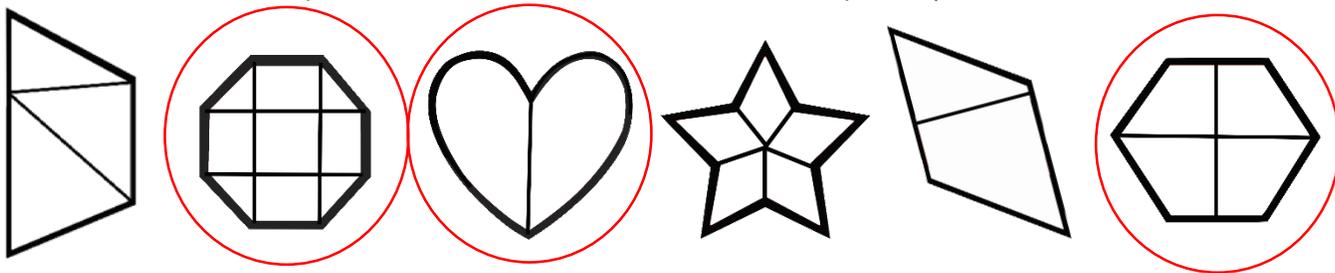
750

7.) Miss Duncan made a batch of cookies. If one batch has 12 cookies and she made 10 batches, how many cookies did she make in all? **120**

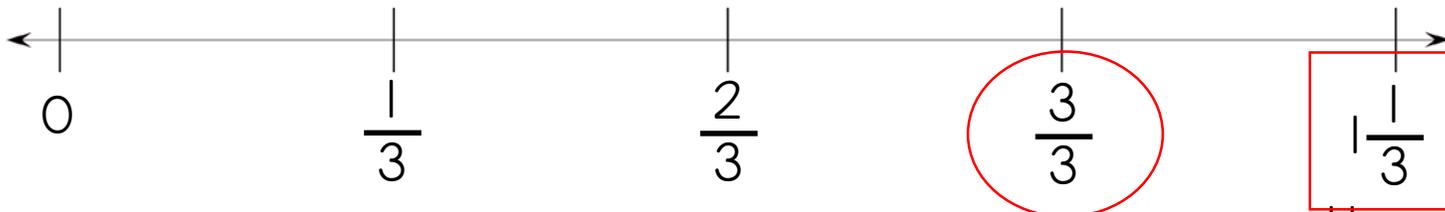
8.) Which figures represents $\frac{1}{5}$?



9.) Circle the shapes that are divided equally.

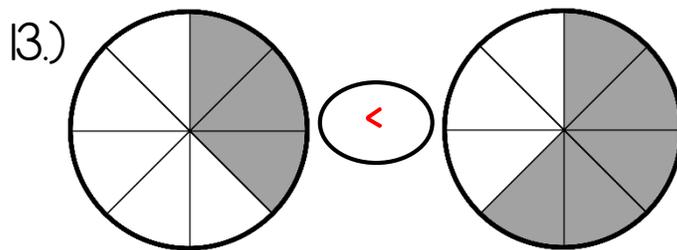
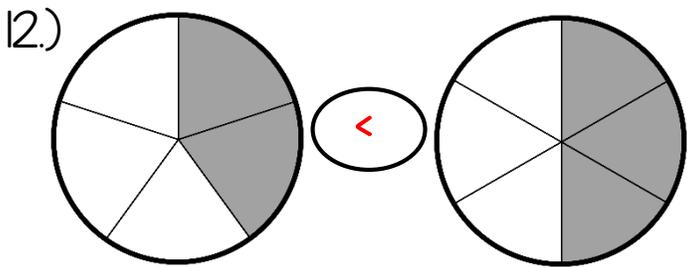


10.) Circle the fraction that is equal to 1.



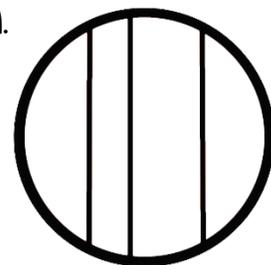
11.) Put a square around the fraction that is equivalent to $\frac{4}{3}$ on the number line above.

For #12-13, compare using $<$, $>$, or $=$.



14.) Henry drew the circle below. He says he divided the circle into 4 equal parts. Do you agree or disagree. Explain.

No, the circle is not divided equally.
Some parts are larger than others.



15.) What fraction of the cupcake is one piece? Explain.



$\frac{1}{4}$. There are four pieces in all.

16.) A librarian can fit 40 books in one box. If she packed 3 boxes, how many books did she pack in all?

120 books

17.) What time is shown on the clock?



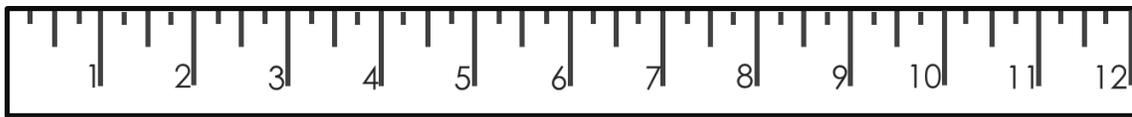
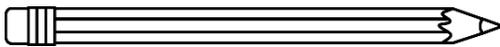
10:33

18.) Leslie starts dance practice at 7:04. Her practice lasts for 37 minutes. Complete the clock to show what time Leslie finished dance practice.



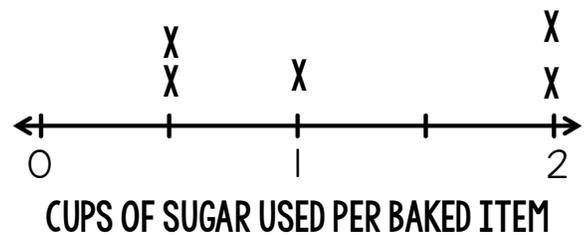
19.) What is the length of the pencil below?

5 1/4 in.



20.) Mrs. Smith is a baker. She prepared different baked goods for a party. How many baked goods called for 1/2 a cup of sugar?

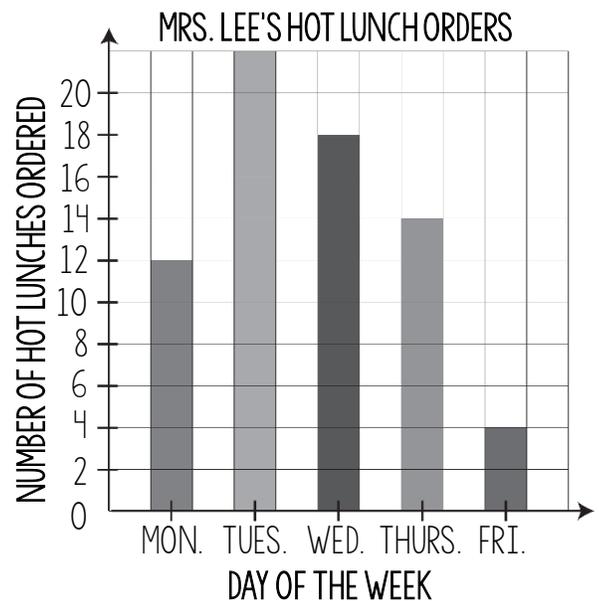
Two recipes



21.) Use the bar graph.

How many hot lunches were ordered on Tuesday and Wednesday in all?

40 hot lunches



22.) What is the difference in the largest number of hot lunches ordered in one day and the least number of hot lunches ordered in one day?

18 lunches

23.)

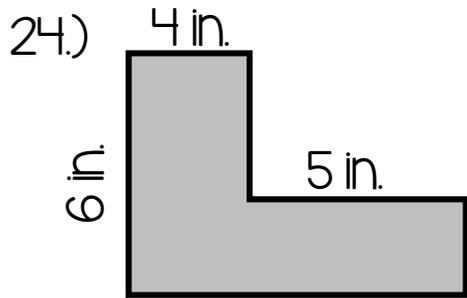
NUMBER OF BOOKS READ PER MONTH BY JACKIE

JANUARY	
FEBRUARY	
MARCH	

If = 4 BOOKS, what is the difference in the number of books Jackie read in January and March?

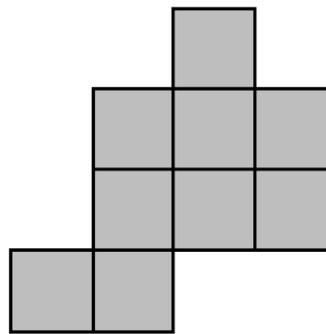
2 books

Find the area for the shape below.



34 square in.

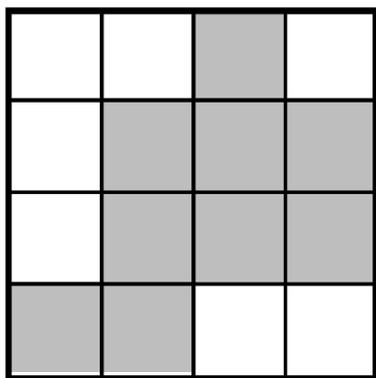
25.)



9 square units

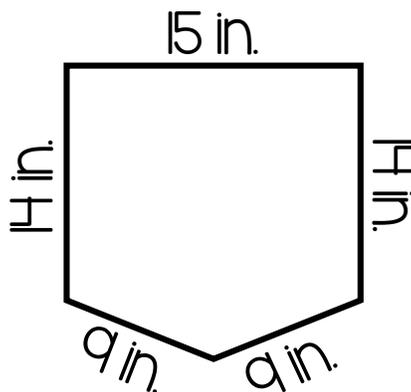
Find the perimeter of each shape below.

26.)



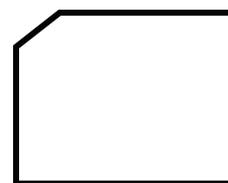
16 units

27.)



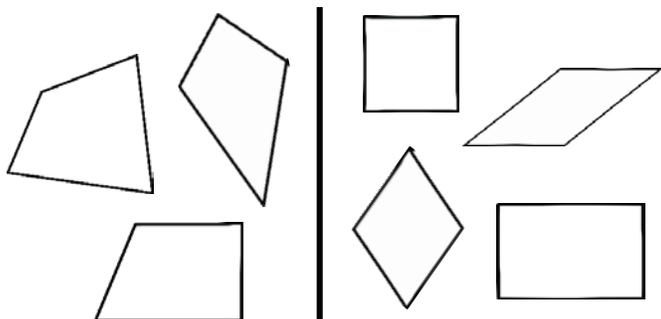
61 inches

28.) What do these shapes have in common?



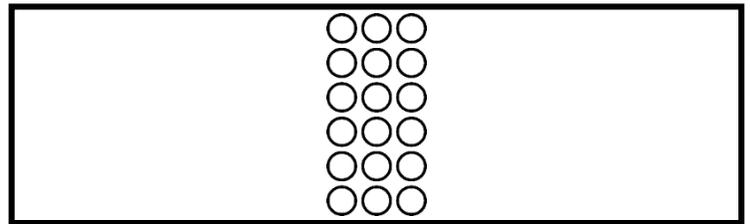
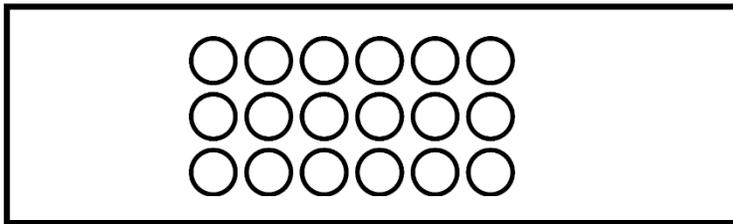
All these shapes are quadrilaterals,
which are shapes with four sides.

29.) Judy sorted the shapes below using a rule. What is the rule Judy followed?

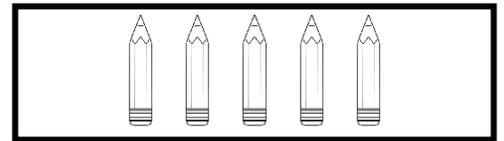
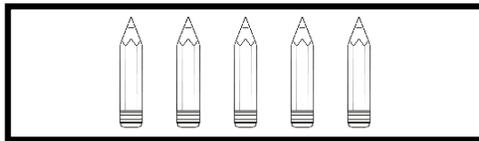
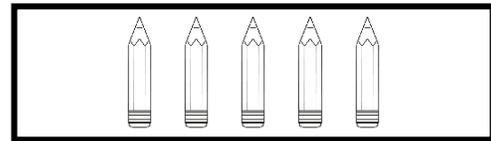


Judy sorted the shapes
based on if they has
two pairs of parallel
sides or not.

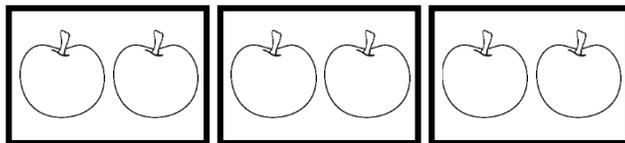
30.) Create two arrays for 3×6 .



31.) Jeff has 15 pencils. He wants to put the pencils into 3 equal groups. How many pencils should Jeff put in each group? $15 \div 3 = \underline{5}$

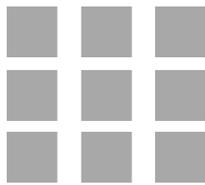


32.) Write a division sentence for the picture below.



$$\underline{6 \div 3 = 2}$$

33.) What multiplication sentence does the array represent?



Multiplication sentence: $\underline{3 \times 3}$

Answer: $\underline{9}$

34.) Mrs. Jackson bought 40 glue sticks. Each pack had 5 glue sticks. How many packs of glue sticks did Mrs. Jackson purchase? $\underline{8 \text{ packs}}$

35.) $9 \times 4 = \underline{36}$

36.) $8 \times 7 = \underline{56}$

37.) $49 \div ? = 7$ $? = \underline{7}$

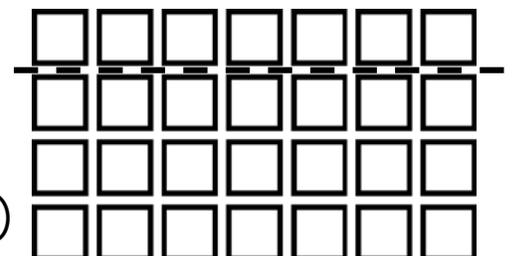
38.) $n \div 6 = 9$ $n = \underline{54}$

39.) Patricia bought 27 flowers from the farmer's market. She wants to put the flowers equally into 3 vases. How many flowers will she put in 1 vase? $\underline{9 \text{ flowers}}$

40.) Lara was asked to solve 7×4 . She decided to split the array to make solving easier.

Help Lara finish the expression to represent the array.

$(3 \times \boxed{7}) + (\boxed{1} \times 7)$



TANYA YERO Teaching

WHERE *creativity* MEETS PRACTICALITY



THANK You
for downloading
this product!



Follow Me



on TpT for notifications on my
latest products and freebies!

OTHER PLACES TO FIND ME:



Copyright © Tanya Yero Teaching. All rights reserved by creator. This product is to be used by the original downloader only. Copying for more than one teacher, classroom, team, grade level, department, school, or school system is prohibited. This product may not be distributed or displayed digitally for public view. Failure to comply is a copyright infringement and a violation of the Digital Millennium Copyright Act (DMCA). Clipart and elements found in this PDF are copyrighted and cannot be extracted and used outside of this file without permission or license. Please contact me if you wish to be granted special authorizations.