

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

Item Analysis Data Sheet
5th Grade Beginning of the Year Pre-Test

Student Name: _____

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



TRACK STUDENT DATA

Name: _____ **Date:** _____

Beginning of the Year 5th Grade Math Pre-Test

Use the graph below to answer questions 1-3.
Patrick and his friend David each opened a lemonade stand to earn money for a local animal shelter. The graph below shows how much money the boys earned.

1) How many hours did each boy work their stand?

2) What is the total amount of money the boys made?

3) How much money did each boy make at the 4 hour mark?

4) Plot the following points:
A (8, 3)
B (6, 32)
C (22, 20)
D (40, 0)

5) True or false?
All parallelograms are quadrilaterals. _____
A rhombus is sometimes a parallelogram. _____

44) Interpret _____

45) Create Thirteen _____

46) Start in terms of 1 _____

47) Plot how coordinate
Becc fish how I thro

37) What a _____

38) There are cupcakes and chocolate cl _____

39) Solve.
 $\frac{1}{3} \div 2$

4) A group c class. They f work equally each persor _____

42) Evaluate $3(2 \times 2 + 1)$ _____

28) Solve.
 $\frac{6}{10} + \frac{1}{10}$

30) While a His friend L how much? _____

3) Mr. Willar together 4 cleaning sol How much? _____

32) Write a problem for $\frac{1}{5}$ _____

34) Solve $\frac{2}{3} \times 5$ _____

36) If you r than, or eq _____

2) Select r _____

22) A war towels. Hc _____

23) Round _____

24) When number cc _____

25) Identif a) : b) : c) : _____

26) Sally h the fabric use per sc _____

27) Jacksc with his fc much canc _____

Find the 13) Volume: _____

16) Volume: _____

19) Mark s drop the move the _____

20) Selec a) 100 + b) (1 x K c) one d) (1 x K e) one _____

Complete ex 6) A parallel 7) A square 8) A trapez 9) Name eac _____

10) Denise r ran for 45 _____

1) Solve: 6 c _____

12) Jessica c After one w Create a line _____

1/8 _____

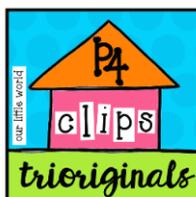


5TH GRADE

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.

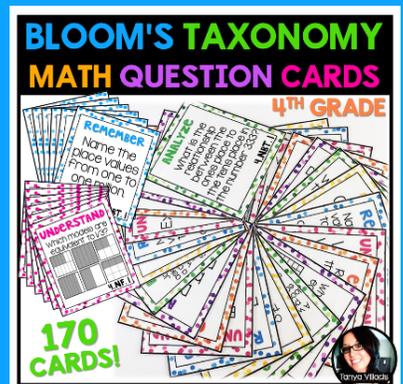
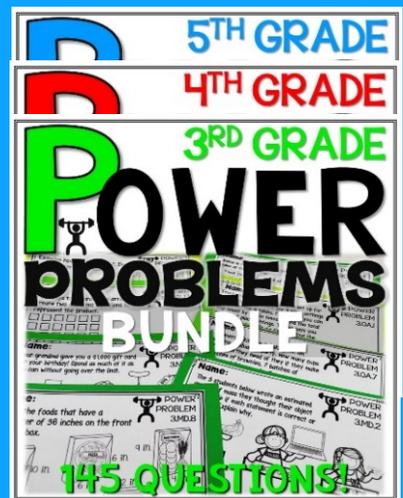
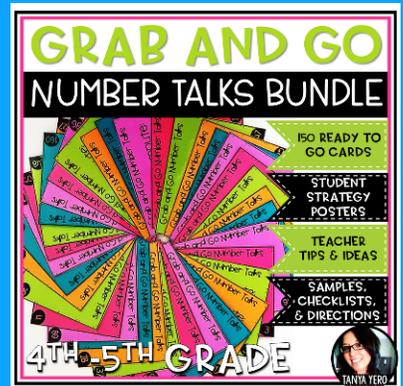
YOU MAY:

- 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

5th grade

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

**Math
Intervention**

**Numbers &
Operations
in Base Ten**

Assesses Procedural
& Conceptual
Understanding

130
pages of
resources!

»»» Fifth grade «««

**Math
Intervention**

**Operations
& Algebraic
Thinking**

Assesses Procedural
& Conceptual
Understanding

50
pages of
resources!

»»» Fifth grade «««

**Math
Intervention**

**Fraction
Standards**

Assesses Procedural
& Conceptual
Understanding

95
pages of
resources!

»»» Fifth grade «««

**Math
Intervention**

**Measurement
and Data
Standards**

Assesses Procedural
& Conceptual
Understanding

90
pages of
resources!

»»» Fifth grade «««

**Math
Intervention**

**Geometry
Standards**

Assesses Procedural
& Conceptual
Understanding

80
pages of
resources!

»»» Fifth grade «««

complete bundle

NEED MORE RESOURCES?

Math Intervention

TANYA YERO Teaching

5th grade

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

Math Intervention
Numbers & Operations in Base Ten
Assesses Procedural & Conceptual Understanding
130 pages of resources
Fifth grade

Math Intervention
Operations & Algebraic Thinking
Assesses Procedural & Conceptual Understanding
50 pages of resources
Fifth grade

Math Intervention
Fraction Standards
Assesses Procedural & Conceptual Understanding
95 pages of resources
Fifth grade

Math Intervention
Measurement and Data Standards
Assesses Procedural & Conceptual Understanding
90 pages of resources
Fifth grade

Math Intervention
Geometry Standards
Assesses Procedural & Conceptual Understanding
80 pages of resources
Fifth 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

5th Grade Beginning of the Year Pre-Test

Student Name: _____

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

Item Analysis Data Sheet

5th Grade Beginning of the Year Pre-Test

Student Name: _____

Questions	Standard	Procedural Understanding	Conceptual Understanding	(M) Missed
#25	5.NBT.6	X		
#26	5.NBT.7		X	
#27	5.NBT.7		X	
#28	5.NF.1	X		
#29	5.NF.1	X		
#30	5.NF.2		X	
#31	5.NF.1		X	
#32	5.NF.3	X		
#33	5.NF.3		X	
#34	5.NF.4	X		
#35	5.NF.4	X		
#36	5.NF.5	X		
#37	5.NF.4		X	
#38	5.NF.6		X	
#39	5.NF.7	X		
#40	5.NF.7	X		
#41	5.NF.7		X	
#42	5.OA.1	X		
#43	5.OA.1		X	
#44	5.OA.2	X		
#45	5.OA.2	X		
#46	5.OA.3	X		
#47	5.OA.3		X	

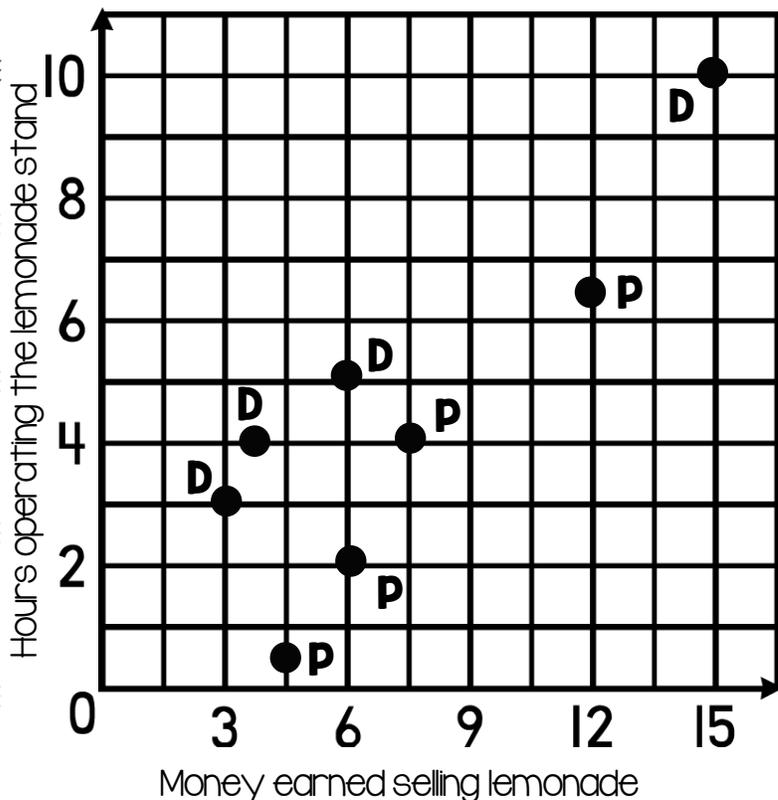
Name: _____

Date: _____

Beginning of the Year 5th Grade Math Pre-test

Use the graph below to answer questions 1-3.

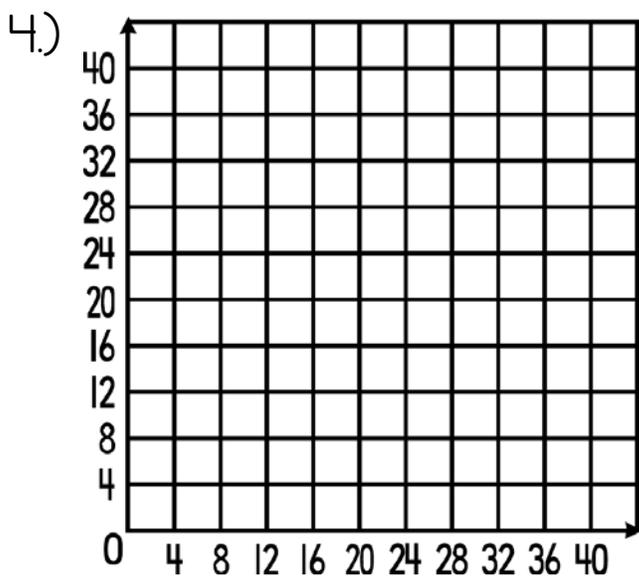
Patrick and his friend David each opened a lemonade stand to earn money for a local animal shelter. The graph below shows how much money the boys earned.



1.) How many hours did each boy work their stand?

2.) What is the total amount of money the boys made?

3.) How much money did each boy make at the 4 hour mark?



Plot the following points:

A (8, 3)

E (9, 32)

B (6, 32)

F (24, 24)

C (22, 20)

G (10, 12)

D (40, 0)

H (33, 40)

5.) True or false?

All parallelograms are quadrilaterals. _____

A rhombus is sometimes a parallelogram. _____

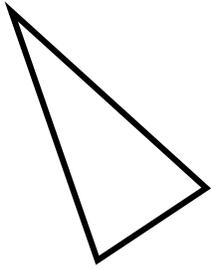
Complete each sentence with sometimes, always, or never.

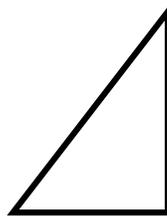
6.) A parallelogram is _____ a rhombus.

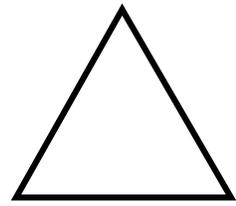
7.) A square is _____ a rectangle.

8.) A trapezoid is _____ a quadrilateral.

9.) Name each triangle below.







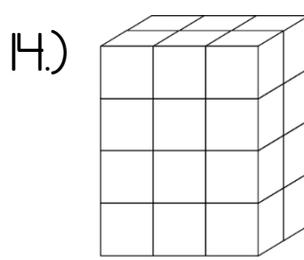
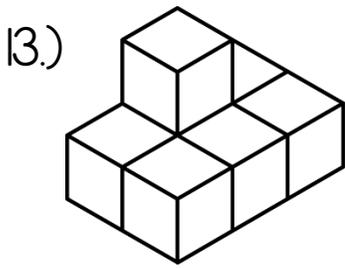
10.) Denise ran for 8 yards, 2 feet, and 9 inches. Her sister Suzie ran for 45 feet, and 3 inches. Who ran farther? Explain.

11.) Solve: 6 quarts = _____ cups 12 gallons = _____ pints

12.) Jessica and her 3 friends planted seeds at their school campus. After one week they measured the growth of their seedlings. Create a line plot to show the height of the seedlings.

Height of seedlings (in inches)								
1/8	3/8	5/8	1/8	2/8	8/8	2/8	7/8	6/8

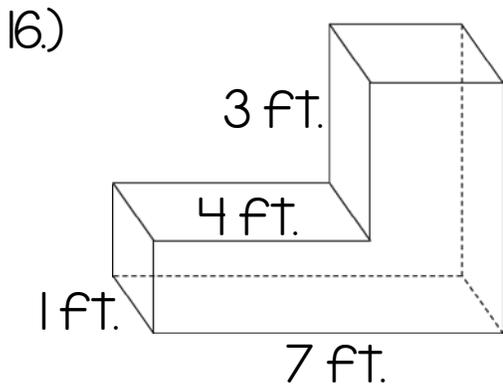
Find the volume for each shape below.



Volume: _____

Volume: _____

Volume: _____



Volume: _____

17.) What is the value of the digit 7 in 276,943?

18.) $43 \times 10^2 =$ _____

$57 \div 10^1 =$ _____

19.) Mark says to solve the following expression, $4,300 \div 10^3$, you drop the two zeros and the digit 3. Judy says that you must move the decimal point. Who is correct? Explain.

20.) Select all the ways to show 160.308.

a.) $100 + 60 + 0.3 + 0.008$

b.) $(1 \times 100) + (6 \times 10) + (3 \times 1/10) + (8 \times 1/100)$

c.) one hundred sixteen and thirty eight thousandths

d.) $(1 \times 10^2) + (6 \times 10^1) + (3 \times 1/10) + (8 \times 1/1,000)$

e.) one hundred sixteen and three hundred eight

21.) Select all that makes the equation true. $? < 457.08$

a.) 457.080

c.) 457.1

e.) 450.653

b.) 456.999

d.) 457.05

f.) 457.26

22.) A warehouse has 150 boxes. Each box has 22 rolls of paper towels. How many paper towels does the warehouse have?

23.) Round the following decimal to the nearest hundredth: 24.598

24.) When rounded to the nearest tenth I become 4.7. What number could I be?

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

a.) $3,805 \div 7 =$

Yes

No

b.) $882 \div 14 =$

Yes

No

c.) $7,936 \div 22 =$

Yes

No

26.) Sally has 4.2 yards of fabric. She wants to equally divide the fabric amongst three scarfs. How many yards can she use per scarf?

27.) Jackson bought 2.3 pounds of chocolate while on family with his family. His sister ate 1.289 pounds of his candy. How much candy does Jackson have left?

28.) Solve.

$$\frac{6}{10} + \frac{3}{4} = \underline{\hspace{2cm}}$$

29.) Solve.

$$1\frac{8}{12} - \frac{2}{3} = \underline{\hspace{2cm}}$$

30.) While at a birthday party, Jacob ate $\frac{2}{6}$ of a pound of candy. His friend Louis ate $\frac{7}{9}$ of a pound of candy. Who ate more? By how much?

31.) Mr. Williams needs to clean the floors in his house. He mixes together $4\frac{6}{8}$ gallons of Lysol with $2\frac{4}{5}$ gallons of water to make a cleaning solution. He ends up using only $2\frac{3}{4}$ gallons of the solution. How much does he have leftover?

32.) Write a division problem for:

$$\frac{1}{5} \underline{\hspace{2cm}}$$

33.) Amy has 3 cookies to share with her 7 friends. How can the group equally share the cookies? Draw a picture to explain.

34.) Solve.

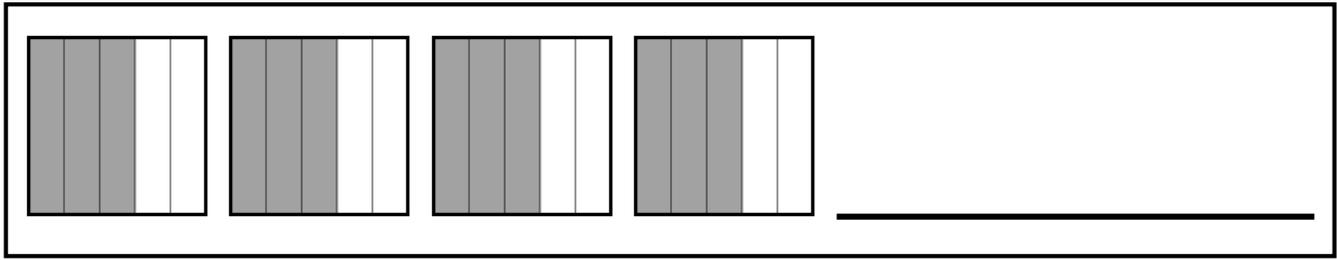
$$\frac{2}{3} \times 5 = \underline{\hspace{2cm}}$$

35.) Solve.

$$\frac{1}{5} \times \frac{2}{6} = \underline{\hspace{2cm}}$$

36.) If you multiply $10 \times \frac{6}{8}$ will you get a product greater than, less than, or equal to 10?

37.) What a multiplication equation for the model below.



38.) There are 42 cupcakes in a bakery. $\frac{2}{3}$ of the cupcakes are chocolate flavored. How many chocolate cupcakes are in the bakery? _____

39.) Solve.

$$\frac{1}{3} \div 2 = \underline{\hspace{2cm}}$$

40.) Solve.

$$6 \div \frac{1}{4} = \underline{\hspace{2cm}}$$

41.) A group of students are working on a project for their science class. They have $\frac{1}{3}$ of their project left. If they divide the remaining work equally among the 4 of them, how much of the project will each person work on?

42.) Evaluate the expression:
 $3\{2 \times 2 + [40 \div 5 \times (2 \times 3)] + 2\}$

43.) Mrs. Jetson asked her class to evaluate the expression $20 - (5 + 5)$. John got the answer 10, while Fletcher got 20. Lauren says that both boys are correct. Who is correct? Explain.

44.) Interpret the following expression in words: $25 + 8s$

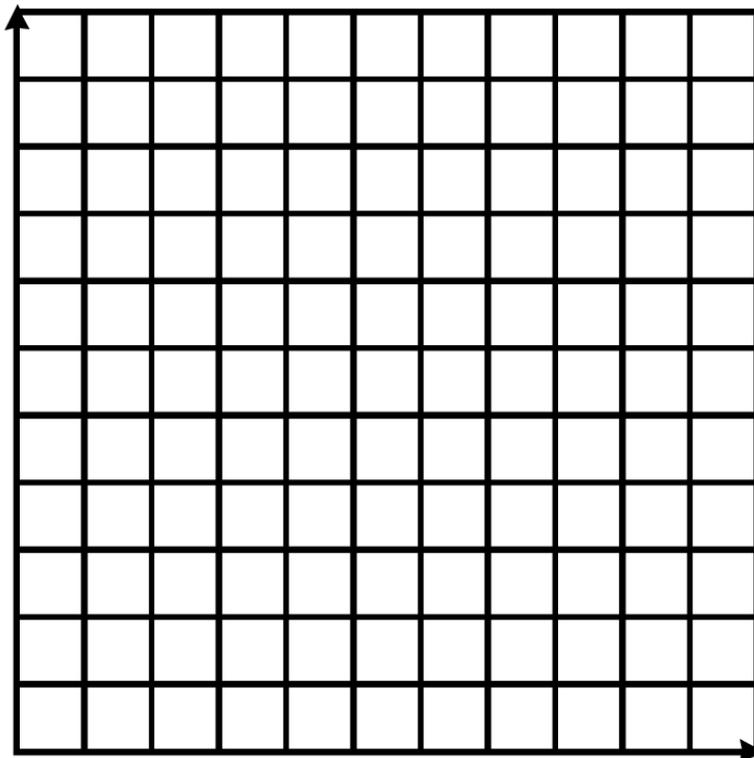
45.) Create an expression for the following:
Thirteen increased by five, then multiplied by two

46.) Starting with the term 0, use the rule $+4$. Complete 8 terms of the pattern.

47.) Plot how many fish Becca and Tanya caught on the coordinate grid.

Becca and Tanya went fishing. The chart displays how many fish they caught throughout the day.

Hour	Tanya	Becca
1	2	1
2	4	3
3	6	6
4	8	9



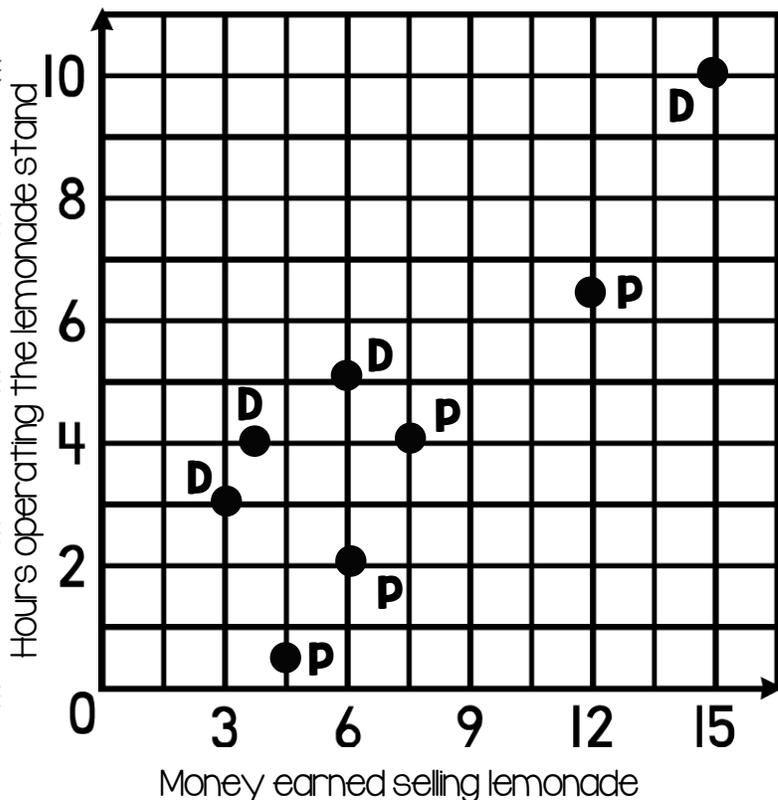
Name: _____

Date: _____

End of the Year 5th Grade Math Post-test

Use the graph below to answer questions 1-3.

Patrick and his friend David each opened a lemonade stand to earn money for a local animal shelter. The graph below shows how much money the boys earned.

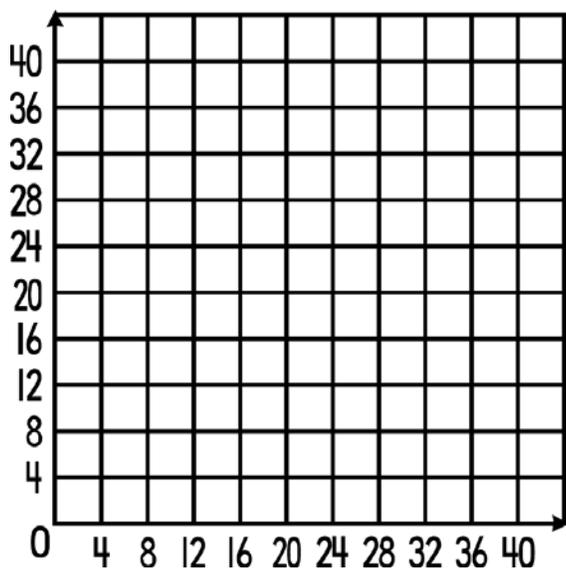


1.) How many hours did each boy work their stand?

2.) What is the total amount of money the boys made?

3.) How much money did each boy make at the 4 hour mark?

4.)



Plot the following points:

A (8, 3)

B (6, 32)

C (22, 20)

D (40, 0)

5.) True or false?

All parallelograms are quadrilaterals. _____

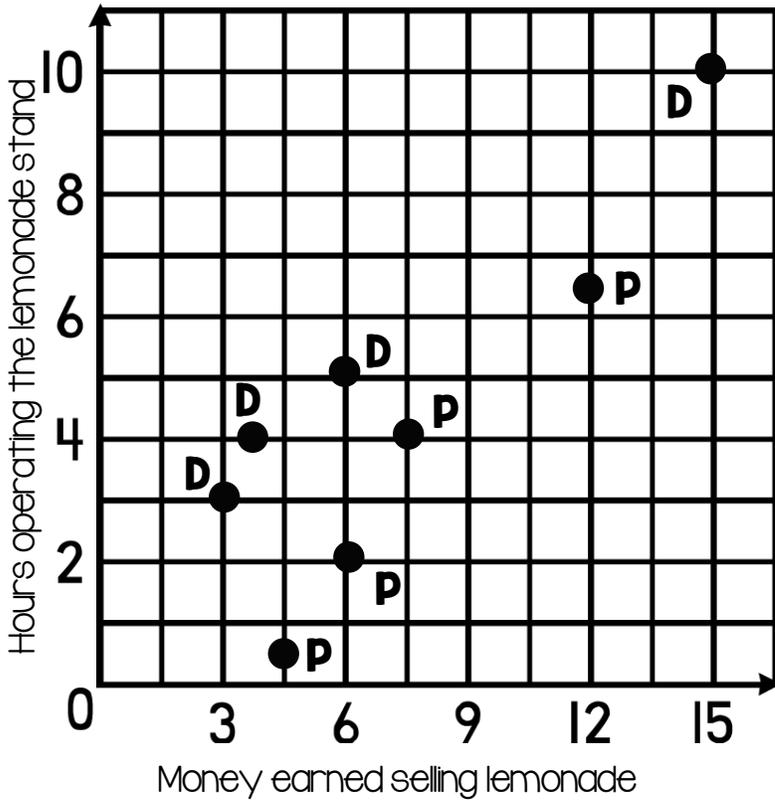
A rhombus is sometimes a parallelogram. _____

Name: **Answer Key** Date:

Beginning of the Year 5th Grade Math Pre-test

Use the graph below to answer questions 1-3.

Patrick and his friend David each opened a lemonade stand to earn money for a local animal shelter. The graph below shows how much money the boys earned.



1.) How many hours did each boy work their stand?

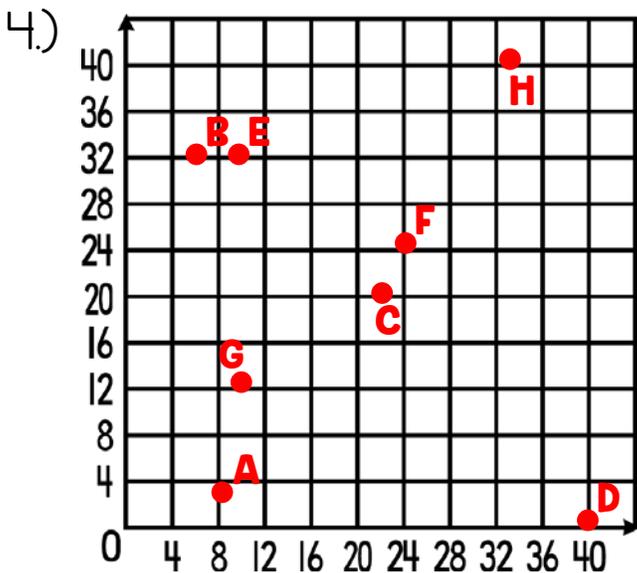
Patrick-7, David-10

2.) What is the total amount of money the boys made?

Patrick-\$12, David-15 = \$27

3.) How much money did each boy make at the 4 hour mark?

**Patrick-\$7.50,
David-\$4.50**



Plot the following points:

A (8, 3)

B (6, 32)

C (22, 20)

D (40, 0)

E (9, 32)

F (24, 24)

G (10, 12)

H (33, 40)

5.) True or false?

All parallelograms are quadrilaterals.

True

A rhombus is sometimes a parallelogram.

False

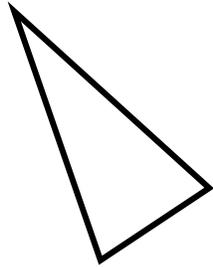
Complete each sentence with sometimes, always, or never.

6.) A parallelogram is sometimes a rhombus.

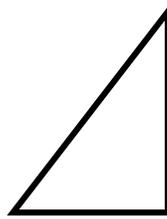
7.) A square is always a rectangle.

8.) A trapezoid is always a quadrilateral.

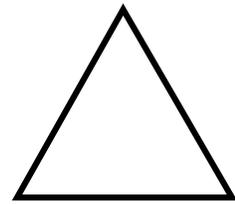
9.) Name each triangle below.



Isosceles,
acute



Scalene,
right



equilateral,
acute

10.) Denise ran for 8 yards, 2 feet, and 9 inches. Her sister Suzie ran for 45 feet, and 3 inches. Who ran farther? Explain.

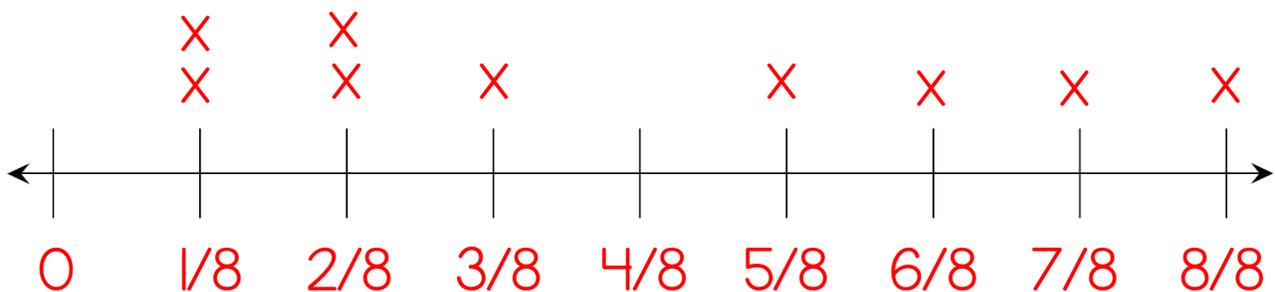
Suzie ran farther. Denise ran 8 yards, which is only 24 feet.

11.) Solve: 6 quarts = 24 cups 12 gallons = 96 pints

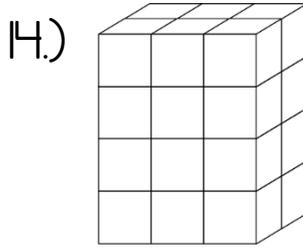
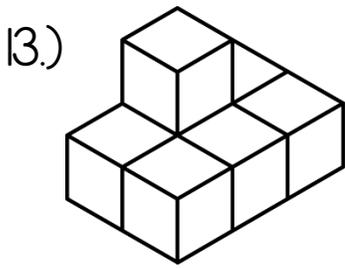
12.) Jessica and her 3 friends planted seeds at their school campus. After one week they measured the growth of their seedlings. Create a line plot to show the height of the seedlings.

Height of seedlings (in inches)

$\frac{1}{8}$ $\frac{3}{8}$ $\frac{5}{8}$ $\frac{1}{8}$ $\frac{2}{8}$ $\frac{8}{8}$ $\frac{2}{8}$ $\frac{7}{8}$ $\frac{6}{8}$



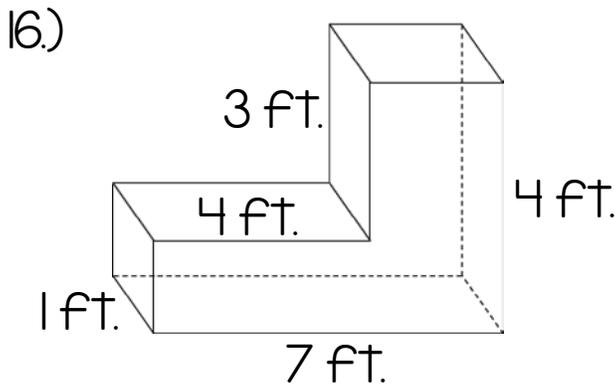
Find the volume for each shape below.



Volume: 7 units

Volume: 24 cubic units

Volume: 420 cubic in.



17.) What is the value of the digit 7 in 276,943?

70,000

Volume: 16 cubic ft.

18.) $43 \times 10^2 =$ 4,300

$57 \div 10^1 =$ 5.7

19.) Mark says to solve the following expression, $4,300 \div 10^3$, you drop the two zeros and the digit 3. Judy says that you must move the decimal point. Who is correct? Explain.

Judy is correct. To make 4,300 a thousand times smaller you must move the decimal point three times to the left. 4.3

20.) Select all the ways to show 160.308.

a.) $100 + 60 + 0.3 + 0.008$

b.) $(1 \times 100) + (6 \times 10) + (3 \times 1/10) + (8 \times 1/100)$

c.) one hundred sixteen and thirty eight thousandths

d.) $(1 \times 10^2) + (6 \times 10^1) + (3 \times 1/10) + (8 \times 1/1,000)$

e.) one hundred sixteen and three hundred eight

21.) Select all that makes the equation true. $? < 457.08$

a.) 457.080

c.) 457.1

e.) 450.653

b.) 456.999

d.) 457.05

f.) 457.26

22.) A warehouse has 150 boxes. Each box has 22 rolls of paper towels. How many paper towels does the warehouse have?

3,300

23.) Round the following decimal to the nearest hundredth: 24.598

24.60

24.) When rounded to the nearest tenth I become 4.7. What number could I be?

4.66 - 4.74

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

a.) $3,805 \div 7 =$

Yes

No

b.) $882 \div 14 =$

Yes

No

c.) $7,936 \div 22 =$

Yes

No

26.) Sally has 4.2 yards of fabric. She wants to equally divide the fabric amongst three scarfs. How many yards can she use per scarf?

1.4 yards

27.) Jackson bought 2.3 pounds of chocolate while on family with his family. His sister ate 1.289 pounds of his candy. How much candy does Jackson have left?

1.011 pounds

28.) Solve.

$$\frac{6}{10} + \frac{3}{4} = \underline{1\frac{7}{20}}$$

29.) Solve.

$$1\frac{8}{12} - \frac{2}{3} = \underline{1}$$

30.) While at a birthday party, Jacob ate $\frac{2}{6}$ of a pound of candy. His friend Louis ate $\frac{7}{9}$ of a pound of candy. Who ate more? By how much?

Louis ate $\frac{4}{9}$ of a pound more.

31.) Mr. Williams needs to clean the floors in his house. He mixes together $4\frac{6}{8}$ gallons of Lysol with $2\frac{4}{5}$ gallons of water to make a cleaning solution. He ends up using only $2\frac{3}{4}$ gallons of the solution. How much does he have leftover?

$4\frac{4}{5}$ gallons

32.) Write a division problem for:

$$\frac{1}{5} \quad \underline{1 \div 5}$$

33.) Amy has 3 cookies to share with her 7 friends. How can the group equally share the cookies? Draw a picture to explain.



34.) Solve.

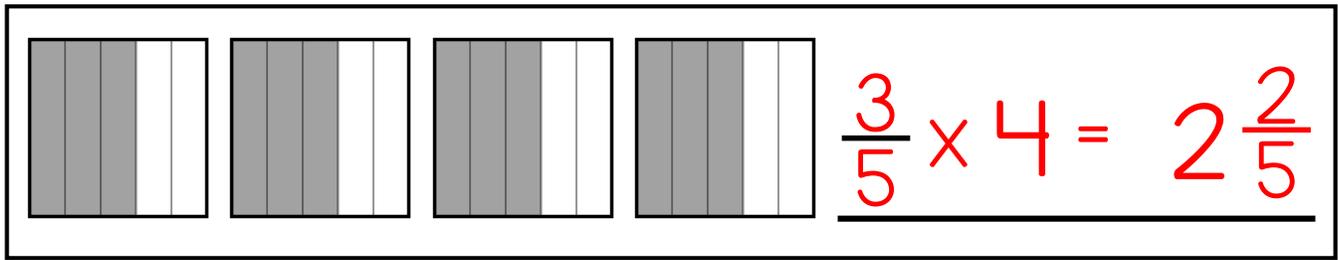
$$\frac{2}{3} \times 5 = \underline{5\frac{1}{3}}$$

35.) Solve.

$$\frac{1}{5} \times \frac{2}{6} = \underline{\frac{1}{15}}$$

36.) If you multiply $10 \times \frac{6}{8}$ will you get a product greater than, less than, or equal to 10? Less than

37.) What a multiplication equation for the model below.



38.) There are 42 cupcakes in a bakery. $\frac{2}{3}$ of the cupcakes are chocolate flavored. How many chocolate cupcakes are in the bakery?

28 chocolate cupcakes

39.) Solve.

$$\frac{1}{3} \div 2 = \underline{\frac{1}{6}}$$

40.) Solve.

$$6 \div \frac{1}{4} = \underline{24}$$

41.) A group of students are working on a project for their science class. They have $\frac{1}{3}$ of their project left. If they divide the remaining work equally among the 4 of them, how much of the project will each person work on?

$\frac{1}{12}$ of the remaining work

42.) Evaluate the expression:
 $3\{2 \times 2 + [40 \div 5 \times (2 \times 3)] + 2\}$

$$\begin{aligned} &3\{2 \times 2 + [40/5 \times (2 \times 3)] + 2\} \\ &3\{2 \times 2 + [40/5 \times (6)] + 2\} \\ &3\{2 \times 2 + [40/5 \times 6] + 2\} \\ &3\{2 \times 2 + [8 \times 6] + 2\} \\ &3\{2 \times 2 + [48] + 2\} \\ &3\{2 \times 2 + 48 + 2\} \\ &3\{4 + 48 + 2\} \\ &3\{52 + 2\} \\ &3\{54\} \\ &3 \times 54 \\ &162 \end{aligned}$$

43.) Mrs. Jetson asked her class to evaluate the expression $20 - (5 + 5)$. John got the answer 10, while Fletcher got 20. Lauren says that both boys are correct. Who is correct? Explain.

John is correct. In the order of operations, parenthesis need to be evaluated first.

44.) Interpret the following expression in words: $25 + 8s$

The product of eight and a number increased by twenty-five

45.) Create an expression for the following:

Thirteen increased by five, then multiplied by two

$(13 + 5) \times 2$

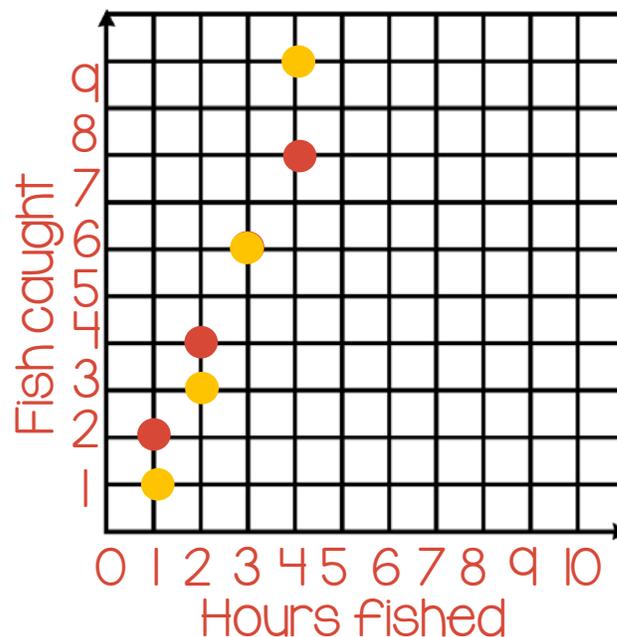
46.) Starting with the term 0, use the rule $+4$. Complete 8 terms of the pattern.

0, 4, 8, 12, 16, 20, 24, 28, 32...

47.) Plot how many fish Becca and Tanya caught on the coordinate grid.

Becca and Tanya went fishing. The chart displays how many fish they caught throughout the day.

Hour	Tanya	Becca
1	2	1
2	4	3
3	6	6
4	8	9



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.