



NAME : _____

PERIOD 2

STAAR MIXED REVIEW QUESTIONS

Instructions: Solve each question. Be sure to show work. No work, No credit!!

1. Students in Mrs. Guerro's class must complete at least 40 math problems for homework every week. The table shows the progress of four students on Wednesday.

$$\begin{array}{r} F \\ \hline \\ \hline \end{array} \quad \begin{array}{r} D \\ \hline 0.40 \\ \hline \end{array} \quad \begin{array}{r} P \\ \hline 40\% \\ \hline \end{array}$$

$$\frac{45}{40} \div \frac{5}{5} = \frac{9}{8}$$

Homework Progress

Student	Amount Completed
Katie	0.4
D'Angelo	$\frac{45}{40}$
Grace	100%
Jonah	$\frac{2}{3}$

$$= 40\%$$

$$= 112.5\%$$

$$= 100\%$$

$$= 66\%$$

$$\begin{array}{r} 8 \overline{) 1125} \\ \underline{80} \\ 32 \\ \underline{24} \\ 80 \\ \underline{80} \\ 0 \end{array}$$

$$\begin{array}{r} 0.666 \\ 3 \overline{) 2.000} \\ \underline{18} \\ 20 \\ \underline{18} \\ 20 \\ \underline{18} \\ 20 \end{array}$$

- List the people in order from the most amount of homework completed to the least amount.

least to
greatest

NAMES OF FINAL ANSWER	
1.	<u>D'Angelo</u>
2.	<u>Grace</u>
3.	<u>Jonah</u>
4.	<u>Katie</u>

2. Put the following letters in order from least to greatest, based on the fraction sizes:

ORDER OF THE LETTERS	
1.	<u>D</u>
2.	<u>E</u>
3.	<u>C</u>
4.	<u>A</u>
5.	<u>B</u>

A $\frac{40}{15}$ B 50% C $\frac{3}{8}$ D 0.287 E 32%

$$\begin{array}{r} F \\ \hline \\ \hline \end{array} \quad \begin{array}{r} D \\ \hline \\ \hline \end{array} \quad \begin{array}{r} P \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 0.4 \\ 15 \overline{) 60} \\ \underline{60} \\ 0 \end{array}$$

$$\begin{array}{r} 0.375 \\ 8 \overline{) 3000} \\ \underline{24} \\ 60 \\ \underline{56} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

$$= 37.5\%$$

3.

	0	0	1	4	.	0	0
+	●	●	○	○		●	●
○	1	1	●	1		1	1
	2	2	2	2		2	2
	3	3	3	3		3	3
	4	4	4	●		4	4
	5	5	5	5		5	5
	6	6	6	6		6	6
	7	7	7	7		7	7
	8	8	8	8		8	8
	9	9	9	9		9	9

A teacher wrote this expression on the board.

$$(-6)(2) + (-8 \div 4)$$

What is the value of this expression?

$$\begin{array}{r} \underline{-12 + -2} \\ -14 \end{array}$$

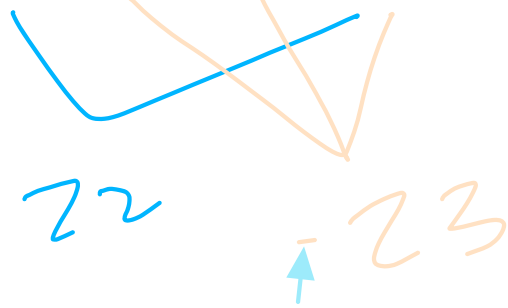
A D M F G

4. Ella played a math game and had the cards shown. Her score was the sum of the numbers on these five cards. What was Ella's score?

	0	0	0	1	.	0	0
+	○	○	○	○		○	○
-	1	1	1	●		1	1
	2	2	2	2		2	2
	3	3	3	3		3	3
	4	4	4	4		4	4
	5	5	5	5		5	5
	6	6	6	6		6	6
	7	7	7	7		7	7
	8	8	8	8		8	8
	9	9	9	9		9	9

7	-9	-4	15	-10
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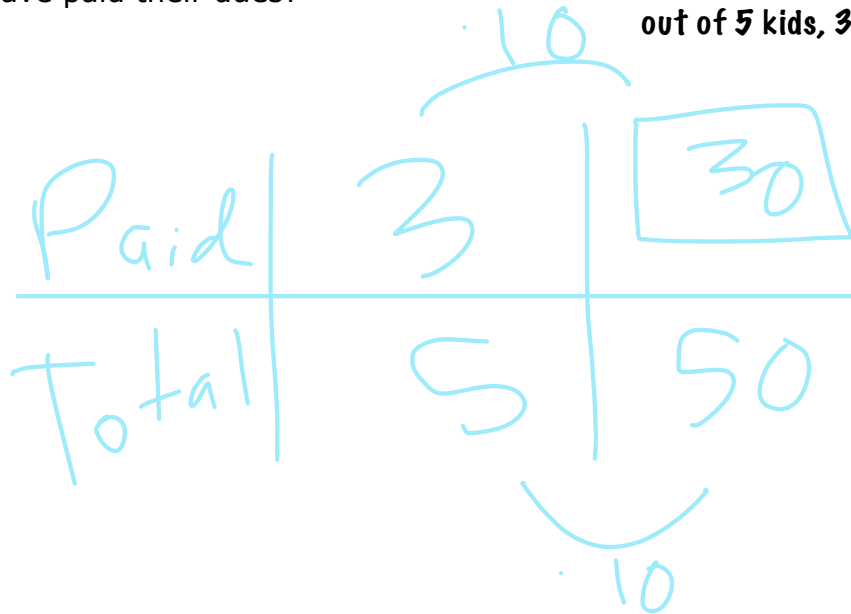
$$\begin{array}{r} 23 \\ -22 \\ \hline 1 \end{array}$$



5. This week, 50 players signed up for the junior soccer league. Of those who signed up, $\frac{3}{5}$ have paid their dues. How many players have paid their dues?

	0	0	3	0	.	0	0
○	○	○	○	○		○	○
-	1	1	1	1		1	1
	2	2	2	2		2	2
	3	3	●	3		3	3
	4	4	4	4		4	4
	5	5	5	5		5	5
	6	6	6	6		6	6
	7	7	7	7		7	7
	8	8	8	8		8	8
	9	9	9	9		9	9

out of 5 kids, 3 paid



0.6×50

6. SOLVE:

$$\frac{3}{5} \div \frac{7}{8}$$

FINAL ANSWER

$$\frac{24}{35}$$

$$3 \cdot \frac{8}{7} = \frac{24}{7}$$

7. What is the prime factorization of 110? WRITE YOUR FINAL ANSWER IN EXPONENTIAL FORM.

FINAL ANSWER

$$2 \cdot 5 \cdot 11$$



8. What is the answer to the following problem: $90 - 2 \cdot (60 \div 10) - 4$

FINAL ANSWER

$$74$$

$$\begin{array}{r} 90 - 2 \cdot 6 - 4 \\ 90 - 12 - 4 \\ \hline 78 - 4 \\ \hline 74 \end{array}$$

G
E
M O
A S

$$\frac{24}{7}$$

9. A restaurant offered cooking classes on 24 of the 30 days in November. What decimal is equivalent to the fraction of days in November that classes were offered at the restaurant?

	+	0	0	0	0	.	8	0
(+)	0	0	0	0			0	0
(-)	1	1	1	1			1	1
	2	2	2	2			2	2
	3	3	3	3			3	3
	4	4	4	4			4	4
	5	5	5	5			5	5
	6	6	6	6			6	6
	7	7	7	7			7	7
	8	8	8	8			8	8
	9	9	9	9			9	9

$$\begin{array}{r} 00.\bar{8} \\ 30 \overline{) 24.0} \\ \underline{- 240} \\ 000 \end{array}$$

10. SOLVE: Quinlan pays \$178 every 4 months for his guitar lessons. At this rate, how much will Quinlan pay for 3 years of guitar lessons?

FINAL ANSWER

11. A company predicts that this year's sales will be equivalent to 144% of last year's sales. What fraction does 144% represent?

FINAL ANSWER

12. On Saturday Kai gave his guinea pig 80 grams of food. The table shows the amount of each type of food he gave to the guinea pig.

Guinea Pig Food

Type of Food	Amount of Food (grams)	Key for Bar Graph
Hay	40	□
Alfalfa pellets	20	■
Tomatoes	10	■
Lettuce	10	■

Find the percentages for each type of food:

80

$$H \frac{40}{80}$$

$$A \frac{20}{80}$$

$$\begin{array}{r} 0.05\% \\ 80 \overline{) 40.0} \\ \underline{-40.0} \\ 0.00 \end{array}$$

FINAL ANSWERS

50 % = HAY

25 % = ALFALFA PELLETS

12.5 % = TOMATOES

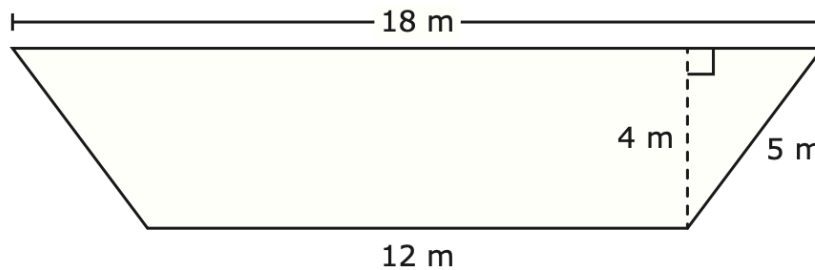
12.5 % = LETTUCE

T/L

$$\frac{10}{80}$$

$$\begin{array}{r} 0.125 \\ 80 \overline{) 10.00} \\ \underline{-80} \\ 200 \\ \underline{-160} \\ 400 \\ \underline{-400} \\ 000 \end{array}$$

13. The dimensions of a lawn shaped like a trapezoid are given in meters.



What is the area of the lawn in square meters?

AREA

Triangle $A = \frac{1}{2}bh$

Rectangle or parallelogram $A = bh$

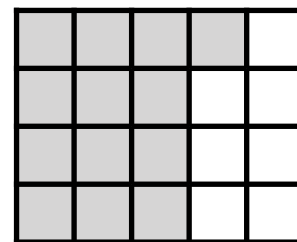
Trapezoid $A = \frac{1}{2}(b_1 + b_2)h$

FINAL ANSWER

14. What percentage is represented by the following image?

FINAL ANSWER
65%

$$\begin{array}{r} 00.65 \\ 20 \overline{) 3.00} \\ \underline{-120} \\ 600 \\ \underline{-600} \\ 00 \end{array}$$



$$\frac{13}{20}$$

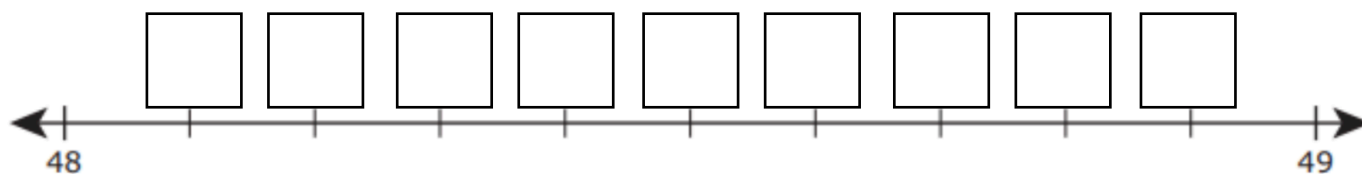
15. Correctly label the A, B, C, & D locations for the following numbers on the number line:

$$A = 48 \frac{24}{60}$$

$$B = 48 \frac{77}{110}$$

$$C = 48 \frac{5}{25}$$

$$D = 48 \frac{3}{5}$$



16. SOLVE: $\frac{2}{7} \cdot 4 =$

FINAL ANSWER