Incoming 5th Grade Math Summer Work

This summer, you will complete two types of math tasks to keep your math skills strong:

- iXL Quizzes:
    - Complete the iXL quizzes. You must submit your work to receive credit.
- Create a Math Game:
    - Design a game based on a math skill we covered this year. Your game should fit inside a gallon-sized Ziploc bag.

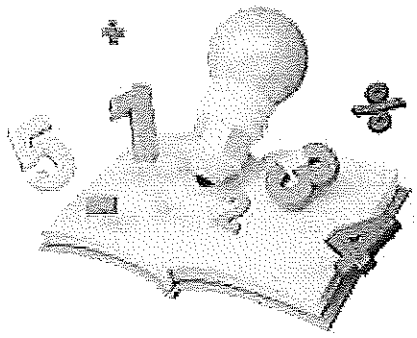
Your task is to create a game about one of the skills we covered this year during math. Your game should be able to fit in a gallon sized ziploc bag. In the bag include: game directions, game pieces, and an answer key. Your game can be modeled from any board game that already exists or a completely new idea. Your game should take between 10 and 15 minutes to play. You may also create a digital game if you prefer. All games must be uniquely your work. You can use IXL and Envision Books/online platform for question ideas.

Topics to Consider:

- Compare numbers up to one million
- Rounding: up to millions place
- Subtract two multi-digit numbers
- Multiply a 2-digit number by a 2-digit number
- Find all the factor pairs of a number
- Divide larger numbers by 1-digit numbers
- Convert improper fractions to mixed numbers
- Add and subtract fractions with like denominators
- Find the area of rectangles using formulas
- Acute, obtuse, right, scalene, isosceles, and equilateral triangles

Use this checklist to help plan and make your game.

- ☐ Directions
- ☐ Game Pieces
- ☐ Game Board / Cards
- ☐ Answer Key
- ☐ Includes at least 5 real world problems
- ☐ Neat & Organized



Trabajo de verano de matemáticas de quinto grado entrante

Este verano, completarás dos tipos de tareas matemáticas para fortalecer tus habilidades:

- Cuestionarios iXL:
    - Completa los cuestionarios iXL. Debes entregar tu trabajo para recibir el crédito.
- Crea un juego matemático:
    - Diseña un juego basado en una habilidad matemática que hayamos visto este año. Tu juego debe caber en una bolsa Ziploc de un galón.

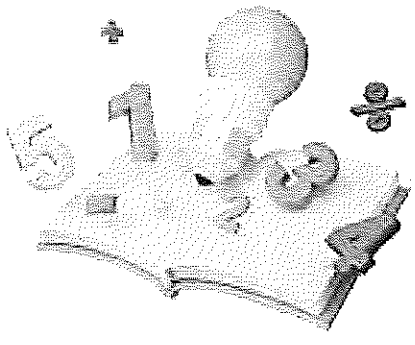
Tu tarea es crear un juego sobre una de las habilidades que vimos este año en matemáticas. Tu juego debe caber en una bolsa ziploc de un galón. En la bolsa incluye: instrucciones, piezas y una clave de respuestas. Puedes inspirarte en cualquier juego de mesa existente o en una idea completamente nueva. El juego debe durar entre 10 y 15 minutos. También puedes crear un juego digital si lo prefieres. Todos los juegos deben ser exclusivamente tuyos. Puedes usar IXL y la plataforma en línea Envision Books para obtener ideas para las preguntas.

Temas a considerar:

- Comparar números hasta un millón
- Redondeo: hasta los millones
- Restar dos números de varios dígitos
- Multiplicar un número de dos dígitos por otro de dos dígitos
- Encontrar todos los pares de factores de un número
- Dividir números mayores entre números de un dígito
- Convertir fracciones impropias en números mixtos
- Sumar y restar fracciones con igual denominador
- Encontrar el área de rectángulos usando fórmulas
- Triángulos acutángulos, obtusángulos, rectángulos, escalenos, isósceles y equiláteros

Usa esta lista de verificación para planificar y crear tu juego.

- ☐ Instrucciones
- ☐ Fichas del juego
- ☐ Tablero/Tarjetas de juego
- ☐ Clave de respuestas
- ☐ Incluye al menos 5 problemas prácticos
- ☐ Ordenado y ordenado



Summer Work Pacing Guide

Week 1 (6/15-6/21)
- IXL Quiz 1
- Choose Board Game Topic

Week 2 (6/22-6/28)
- IXL Quiz 2
- Choose Game Model (Physical or Digital)

Week 3 (6/29-7/5)
- IXL Quiz 3
- Create Game Directions

Week 4 (7/6-7/12)
- IXL Quiz 4
- Create Game Pieces

Week 5 (7/13-7/19)
- IXL Quiz 5
- Create Game Questions/Problems

Week 6 (7/20-7/26)
- IXL Quiz 6
- Create Game Board/Cards

Week 7 (7/27-8/2)
- IXL Quiz 7
- Create Game Answer Key

Week 8 (8/3-8/9)
- IXL Quiz 8
- Finish Math Game

Week 9 (8/10-8/16)
- Finish Math Game

Week 10 (8/17-8/23)
- Finish Math Game

Week 11 (8/24-8/30)
- Finish Math Game

Guía para el ritmo de trabajo de verano

Semana 1 (15/6-21/6)
- Cuestionario IXL 1
- Elige el tema del juego de mesa

Semana 2 (22/6-28/6)
- Cuestionario IXL 2
- Elige el modelo del juego (físico o digital)

Semana 3 (29/6-5/7)
- Cuestionario IXL 3
- Crea las instrucciones del juego

Semana 4 (6/7-12/7)
- Cuestionario IXL 4
- Crea las piezas del juego

Semana 5 (13/7-19/7)
- Cuestionario IXL 5
- Crea las preguntas/problemas del juego

Semana 6 (20/7-26/7)
- Cuestionario IXL 6
- Crea el tablero/las cartas del juego

Semana 7 (27/7-2/8)
- Cuestionario IXL 7
- Crea la clave de respuestas del juego

Semana 8 (3/8-9/8)
- Cuestionario IXL 8
- Termina el juego de matemáticas

Semana 9 (10-16/8)
- Termina el juego de matemáticas

Semana 10 (17-23/8)
- Termina el juego de matemáticas

Semana 11 (24-30/8)
- Termina el juego de matemáticas

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Quiz 1

Name: _____

Number Sense

1. Complete the sentence.

   600,000 is 10 times as much as ☐.

2. Complete the sentence.

   300 is 10 times as much as ☐.

3. Complete the sentence.

   ☐ is 10 times as much as 3,000.

4. Complete the sentence.

   ☐ is 10 times as much as 6,000.

5. Complete the sentence.

   4,000 is 10 times as much as ☐.

6. Complete the sentence.

[ ] is 10 times as much as 50,000.

7. Complete the sentence.

60 is 10 times as much as [ ].

8. Complete the sentence.

[ ] is 10 times as much as 80.

9. Complete the sentence.

[ ] is 10 times as much as 20.

10. Complete the sentence.

400 is 10 times as much as [ ].

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Quiz 2

Find the Factor Pairs

1. Find all the factor pairs for 64 and complete the equations. Each equation should use a *different* pair of factors.

   64 = ☐ × ☐

   64 = ☐ × ☐

   64 = ☐ × ☐

   64 = ☐ × ☐

2. Find all the factor pairs for 49 and complete the equations. Each equation should use a *different* pair of factors.

   49 = ☐ × ☐

   49 = ☐ × ☐

3. Find all the factor pairs for 36 and complete the equations. Each equation should use a *different* pair of factors.

36 = ☐ × ☐

36 = ☐ × ☐

36 = ☐ × ☐

36 = ☐ × ☐

36 = ☐ × ☐

4. Find all the factor pairs for 50 and complete the equations. Each equation should use a *different* pair of factors.

50 = ☐ × ☐

50 = ☐ × ☐

50 = ☐ × ☐

5. Find all the factor pairs for 81 and complete the equations. Each equation should use a *different* pair of factors.

81 = ☐ × ☐

81 = ☐ × ☐

81 = ☐ × ☐

6. Find all the factor pairs for 16 and complete the equations. Each equation should use a *different* pair of factors.

16 = ☐ × ☐

16 = ☐ × ☐

16 = ☐ × ☐

7. Find all the factor pairs for 88 and complete the equations. Each equation should use a *different* pair of factors.

88 = ☐ × ☐

88 = ☐ × ☐

88 = ☐ × ☐

88 = ☐ × ☐

8. Find all the factor pairs for 68 and complete the equations. Each equation should use a *different* pair of factors.

68 = ☐ × ☐

68 = ☐ × ☐

68 = ☐ × ☐

9. Find all the factor pairs for 34 and complete the equations. Each equation should use a *different* pair of factors.

$34 = \square \times \square$

$34 = \square \times \square$

10. Find all the factor pairs for 76 and complete the equations. Each equation should use a *different* pair of factors.

$76 = \square \times \square$

$76 = \square \times \square$

$76 = \square \times \square$

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Name: _____

Quiz 3

Subtraction

1. Subtract.

$$\begin{array}{r} 636,836 \\ -\ 194,981 \\ \hline \square\square\square,\square\square\square \end{array}$$

2. Subtract.

$$\begin{array}{r} 975,894 \\ -\ 601,033 \\ \hline \square\square\square,\square\square\square \end{array}$$

3. Subtract.

$$\begin{array}{r} 41,287 \\ -\ 1,578 \\ \hline \square\square,\square\square\square \end{array}$$

4. Subtract.

$$\begin{array}{r} 484,565 \\ -\ 301,262 \\ \hline \square\square\square,\square\square\square \end{array}$$

5. Subtract.

$$\begin{array}{r} 699,084 \\ -\ 63,012 \\ \hline \square\square\square,\square\square\square \end{array}$$

6. Subtract.

$$\begin{array}{r} 83,461 \\ -\ 28,108 \\ \hline \square\square,\square\square\square \end{array}$$

7. Subtract.

$$\begin{array}{r} 87,796 \\ -\ 26,665 \\ \hline \square\square,\square\square\square \end{array}$$

8. Subtract.

$$\begin{array}{r} 95,997 \\ -\ 77,773 \\ \hline \square\square,\square\square\square \end{array}$$

9. Subtract.

$$\begin{array}{r} 94,054 \\ -\ 63,013 \\ \hline \square\square,\square\square\square \end{array}$$

10. Subtract.

$$\begin{array}{r} 754,877 \\ -\ 36,801 \\ \hline \square\square\square,\square\square\square \end{array}$$

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Name: _____

Quiz 4

Rounding

1. Complete the table. Round 584,567 to each place.

Round 584,567 to the nearest...	
hundred thousand	
ten thousand	
thousand	
hundred	
ten	

2. Complete the table. Round 87,451 to each place.

Round 87,451 to the nearest...	
hundred thousand	
ten thousand	
thousand	
hundred	
ten	

3. Complete the table. Round 192,526 to each place.

Round 192,526 to the nearest...	
hundred thousand	
ten thousand	
thousand	
hundred	
ten	

4. Complete the table. Round 368,657 to each place.

Round 368,657 to the nearest...	
hundred thousand	
ten thousand	
thousand	
hundred	
ten	

5. Complete the table. Round 68,259 to each place.

Round 68,259 to the nearest...	
hundred thousand	
ten thousand	
thousand	
hundred	
ten	

6. Complete the table. Round 698,616 to each place.

Round 698,616 to the nearest...	
hundred thousand	
ten thousand	
thousand	
hundred	
ten	

7. Complete the table. Round 862,501 to each place.

Round 862,501 to the nearest...	
hundred thousand	
ten thousand	
thousand	
hundred	
ten	

8. Complete the table. Round 240,249 to each place.

Round 240,249 to the nearest...	
hundred thousand	
ten thousand	
thousand	
hundred	
ten	

9. Complete the table. Round 181,204 to each place.

Round 181,204 to the nearest...	
hundred thousand	
ten thousand	
thousand	
hundred	
ten	

10. Complete the table. Round 939,826 to each place.

Round 939,826 to the nearest...	
hundred thousand	
ten thousand	
thousand	
hundred	
ten	

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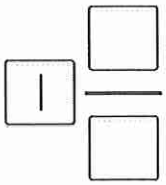
Quiz 5

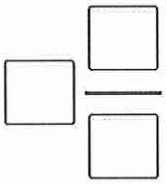
Name: _____

Converting Improper Fractions

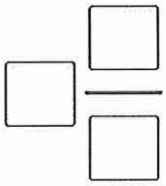
1. Write $\frac{18}{10}$ as a mixed number.



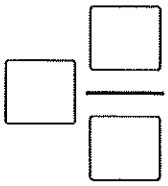
2. Write $\frac{93}{12}$ as a mixed number.



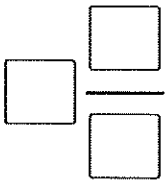
3. Write $\frac{9}{2}$ as a mixed number.



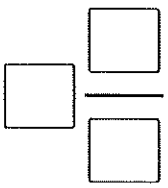
4. Write $\frac{32}{5}$ as a mixed number.



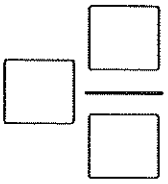
5. Write $\frac{23}{6}$ as a mixed number.



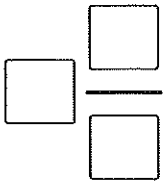
6. Write $\frac{58}{6}$ as a mixed number.



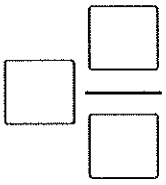
7. Write $\frac{35}{6}$ as a mixed number.



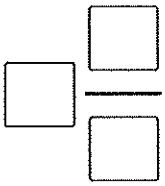
8. Write $\frac{67}{12}$ as a mixed number.



9. Write $\frac{21}{6}$ as a mixed number.



10. Write $\frac{58}{8}$ as a mixed number.



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Quiz 6

Add/Subtract Fractions

1. Subtract.

$\frac{2}{4} - \frac{1}{4} =$ ☐

2. Add.

$\frac{4}{12} + \frac{11}{12} =$ ☐

3. Add.

$\frac{1}{2} + \frac{1}{2} =$ ☐

4. Subtract.

$\frac{9}{10} - \frac{6}{10} =$ ☐

5. Add.

$\frac{3}{6} + \frac{4}{6} =$ ☐

6. Subtract.

$\frac{3}{8} - \frac{1}{8} =$ ☐

7. Subtract.

$\frac{10}{12} - \frac{6}{12} =$ ☐

8. Add.

$\frac{2}{4} + \frac{2}{4} =$ ☐

9. Add.

$\frac{5}{6} + \frac{2}{6} =$ ☐

10. Subtract.

$$\frac{4}{6} - \frac{3}{6} = \square$$

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Quiz 7

Long Division

1. Divide:

$23 \div 8 =$ ☐ R ☐

2. Divide:

$6\overline{)30}$ = ☐ R ☐

3. Divide:

$31 \div 4 =$ ☐ R ☐

4. Divide:

$91 \div 3 =$ ☐ R ☐

5. Divide:

$54 \div 5 =$ ☐ R ☐

6. Divide:

$7\overline{)34}$ R ☐

7. Divide:

80 ÷ 8 = ☐ R ☐

8. Divide:

$5\overline{)53}$ R ☐

9. Divide:

18 ÷ 8 = ☐ R ☐

10. Divide:

96 ÷ 9 = ☐ R ☐

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Quiz 8

Multi-Digit Multiplication

1. Multiply:

$$\begin{array}{r} 26 \\ \times\ 75 \\ \hline \square \end{array}$$

2. Multiply:

$$\begin{array}{r} 89 \\ \times\ 93 \\ \hline \square \end{array}$$

3. Multiply:

$$\begin{array}{r} 40 \\ \times\ 23 \\ \hline \square \end{array}$$

4. Multiply:

$$\begin{array}{r} 63 \\ \times\ 65 \\ \hline \square \end{array}$$

5. Multiply:

$$\begin{array}{r} 88 \\ \times\ 77 \\ \hline \square \end{array}$$

6. Multiply:

$$\begin{array}{r} 67 \\ \times\ 59 \\ \hline \square \end{array}$$

7. Multiply:

$$\begin{array}{r} 42 \\ \times\ 24 \\ \hline \square \end{array}$$

8. Multiply:

$$\begin{array}{r} 64 \\ \times\ 67 \\ \hline \square \end{array}$$

9. Multiply:

$$\begin{array}{r} 67 \\ \times\ 68 \\ \hline \square \end{array}$$

10. Multiply:

$$\begin{array}{r} 60 \\ \times\ 39 \\ \hline \square \end{array}$$