5th Grade Math Board

Name: _____

Use a deck of cards with 10s and Face Cards removed to complete the activities below.
Complete one activity each weekday. When finished, play multiplication war with your deck of cards.

	Week 1	Week 2	Week 3	Week 4
Monday	**5.N.2.2 Place Value** Use cards to create a 7-digit number. Read the number orally and write the number using words. Repeat several times.	**5.N.2.2 Decimals** Create a decimal using 4 cards. Use a penny for the decimal point. Read and write the number name for each decimal . *Example….23.46 Twenty-three and forty-six hundredths or 2.346 Two and three hundred forty-six thousandths.* Repeat several times.	**5.N.2.3 Decimals** Separate your cards into sets of hearts, clubs, spades, diamonds. Create 4 decimals using the digits 3, 4, 5, and 6. Use pennies for the decimal points. (example: 3.456, 345.6) Order from greatest to least. Repeat several times.	**5.N.3.3 Decimals (+, -)** Using 8 cards, create 2 decimals. A) Add to find their total. B) Subtract to find their difference. Record. Repeat 4 times. 3.456 + 2.123 = ? 3.456 - 2.123 = ?
Tuesday	**5.N.1.4 Multiply (x)** Create two 2-digit numbers. Multiply. Record. Repeat 4 times.	**5.N.1.4 Multiply (x)** Create a 2-digit number and a 3-digit number. Multiply. Record. Repeat 4 times.	**5.N.1.4 Multiply (x)** Create two 3-digit numbers. Multiply. Record. Repeat 4 times.	**5.N.1.4 Multiply (x)** Create two 3-digit numbers. Multiply. Record. Repeat 4 times.
Wednesday	**5.N.1.2 Divide (÷)** Create a 3-digit number and divide by a 1-digit number. Record and check your solution using multiplication. Repeat 4 times.	**5.N.1.2 Divide (÷)** Create a 3-digit number and divide by a 2-digit number. Record and check your solution with multiplication. Repeat 4 times.	**5.N.1.2 Divide (÷)** Create a 3-digit number and divide by a 1-digit number. Record and check your solution using multiplication. Repeat 4 times.	**5.N.1.2 Divide (÷)** Create a 3-digit number and divide by a 2-digit number. Record and check your solution with multiplication. Repeat 4 times.
Thursday	**5.N.2.3 Fractions** Turn over 4 cards and create 2 fractions. Locate and place the fractions on a number line. Compare the fractions and tell which is greater. Repeat 4 times.	**4.N.2.4 Equivalent Fractions** Turn over 2 cards and create a fraction. Find an equivalent fraction. Record. Repeat 4 times. $\frac{3}{4}$ $\frac{6}{8}$	**4.N.3.3 Fractions (+, -)** Turn over 4 cards and create 2 fractions. Add the fractions. Subtract the same fractions. Record. Repeat 4 times.	**5.N.3.1** **Estimation of Sums of Mixed Numbers** Turn over 6 cards and create 2 mixed numbers. Estimate and find the sum. Record. Repeat. $2\frac{1}{6} + 4\frac{2}{3}$ 2 + 5 = 7
Friday	**MULTI-DIGIT MULTIPLICATION NUMBER BATTLE** **(**With a Partner) Directions on back.	Target 24 (With a Partner) Directions on back.	Sum Fractions (With a Partner) Directions on back.	I SPY PRODUCTS (With a Partner) Directions on back.

Week 5 is free choice. Select an activity each day to complete from the choice board.

Laura Rogers TPS Elementary Instructional Math Coach

MULTI-DIGIT MULTIPLICATION NUMBER BATTLE

Players: 2

Materials: Deck of cards with the face cards and 10s removed, Ace worth one, scratch paper

How to Play: Players split a deck of cards and simultaneously flip over their top three (or four) cards. Make two of them a 2-digit number and multiply by the third. The highest product wins all the cards.

Player 1: product is 261

Player 2: product is 384

The highest product wins all six (or eight) cards.

Increase the number of cards to flip if you want to work on larger numbers.

More card games:
http://www.pepnonprofit.org/uploads/2/7/7/2/2772238/acing_math.pdf

Target 24

Lay out 4 cards. Can you make the number 24 by adding, subtracting, multiplying, and / or dividing?

9 x 2 = 18

18 + 6 = 24

24 x 1 = 24

Sum Fractions (Grades 5 – 8)

Players: Groups of two

Materials: Deck of cards, face cards worth ten, Ace worth 1 or 11 (teacher decides), scratch paper

Skill: Adding fractions, multiplication, division, numerator, denominator

How to Play: The two players work as a team as they add fractions. Deal four cards and place them face up. Use the four cards to create two fractions (example: 4, 5, 7, and a King).

For this game, *do not* use improper fractions, but rather make the two largest cards the denominators: 4/10 and 5/7. Players use paper to figure out and record the common denominator and then add the fractions. Reduce answer to its simplest form. 78/70 is reduced to 1 and 4/35.

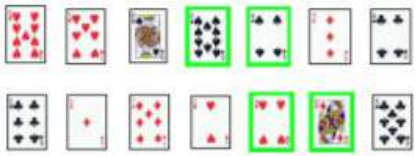
* This is not a game, but rather an opportunity for students to work collaboratively and manipulate the problems.

I SPY PRODUCTS

Players: 2

Materials: Deck of cards, face cards worth ten, Ace worth 1 or 11

How to Play: Deal out the entire deck of cards in a 13 x 4 array. *Example does not show the entire array due to space.*



One player challenges the other player to find two cards next to each other, either vertically or horizontally, that multiply to make a number by saying, "I spy two cards with a product of 40."

The other player looks for two cards that multiply to make the product and removes them. Players swap roles. *As large gaps appear, the size of the array may be reduced to help fill the gaps.*