SD83 Home Learning Opportunities – Grade 7
April 20th to 24th, 2020

Dear Parents/Caregivers,

We hope you had a wonderful weekend with your family. Here are some possible learning opportunities for your child this week. Hopefully you will have a chance to explore the "Website of the Week" as there are some wonderful Science videos there.

Monday April 20th	**Health & Well-Being:** Spell Your Name Workout – go outside and perform each movement according to the letters in your name. **SPELL YOUR NAME** **DO THE WORKOUT EVERY DAY** **A:** 10 PUSH UPS **N:** 5 SETS OF STAIRS **B:** 1K JOG **O:** 20 LEG RAISES **C:** 10 SQUAT JUMPS **P:** 1 MIN PLANK **D:** 20 BURPEES **Q:** 30 STAR JUMPS **E:** 10 SQUATS **R:** 2 MIN SKIPPING **F:** 20 STAR JUMPS **S:** 20 BURPEES **G:** 20 LUNGES **T:** 30 SEC PLANK **H:** 1 MIN SKIPPING **U:** 15 SQUATS **I:** 45 SEC PLANK **V:** 15 PUSH UPS **J:** 3 SETS OF STAIRS **W:** 20 SIT UPS **K:** 10 BURPEES **X:** 10 LUNGES **L:** 20 SQUATS **Y:** 20 SQUAT JUMPS **M:** 2 MIN PLANK **Z:** 2 MIN PLANK
	Literacy: Read a book of your choice. Write a short summary explaining what would happen if your favourite movie had a sequel.
	Numeracy: A tadpole (an immature frog) had a mass of 4.3 grams. After a month, it was 2.7 times heavier. What was the mass of the frog after a month?

"Would You Rather?" - Consider each of the two options below and decide which you would choose. Explain your reasoning and be sure to include your mathematical reasoning.

YOU ARE TRYING TO SAVE MONEY FOR A PURCHASE. WOULD YOU RATHER...?

Work five days week, 3 hours a day at $7.00 an hour?

Work four days a week, working 2 hours a day, making $11.00 an hour?

Tuesday April 21st	**Health & Well-Being:** Write or draw about how you are feeling. Talk about your drawing or writing with someone in your family, with a friend, or with an adult you feel comfortable with.
	Literacy: Read a book of your choice. Create a commercial for how to effectively wash your hands. Perform it for your family or, through technology, for a friend.
	Numeracy: In a survey, one out of five students said they did not like peanut butter and jam sandwiches. How many students do like peanut butter and jam sandwiches? Write your answer as a) a fraction, b) a decimal, and c) a percent. Challenge: Use the digits 0 through 9, at most one time each, to create an equivalent fraction and decimal. $$\frac{\Box}{\Box} = \Box \Box . \Box$$
Wednesday April 22nd	**Health & Well-Being:** "Deck of Cards" - Assign a movement to each of the 4 suits (remove the face cards). Example: Diamonds= Jumping Jacks

Clubs = Lunges
Hearts = Squats
Spades = High Knees

Pick a card from the deck and perform the number and type of movement that corresponds with the chosen card. As an example, if you pick 3 of hearts, perform 3 squats. Can you go through the whole deck?

**Literacy:** Read a book of your choice.

Choose a song you like. Write about how it makes you feel.

Numeracy:
In a particular dice game, even numbers on the die are worth (+1) point and odd numbers on the die are worth (-1) point. The person with the largest sum after 10 rolls is the winner. Who had the greatest sum for the following two players?

Player One's outcomes from 10 rolls:	Player Two's outcomes from 10 rolls:
3, 6, 1, 6, 1, 2, 5, 5, 3, 5	4, 5, 2, 4, 1, 6, 3, 5, 1, 3

Patterns: from visualpattern.org
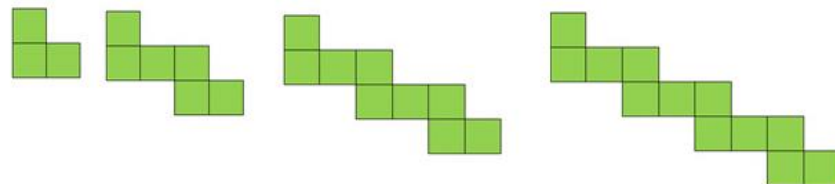
How many squares are in the 5th figure?
How many squares are in the 43rd figure?
What is the perimeter of the 4th figure?
What is the perimeter of the 43rd figure?

Health & Well-Being: Create a poster with an uplifting saying and post it in an area visible to others or use chalk and write a positive message on a sidewalk.

Literacy: Read a book of your choice.

Create five hashtags that describe your life today. #becreative

Thursday April 23rd

	Numeracy: A jug of laundry liquid detergent has a volume of 3.56 litres when it is full. The manufacturing company suggests that each load of dirty clothes uses 0.04 litres of soap. How many loads of dirty laundry can the jug of detergent wash at this rate? Problem of the Week link: https://sd83.bc.ca/math-problems-of-the-week/
Friday April 24th	**Health & Well-Being:** Put on your favourite upbeat songs and have a Dance Party. Teach your family a dance move like The Floss, Rake the Lawn, Pick the Apples, or do The Sprinkler! If you want to follow along with someone else, check out these Dancepl3y video's.
	Literacy: Read a book of your choice. Acts of kindness: Write a plan for how you will add kindness to the world, even from a distance. How will you carry out your plan?
	Numeracy: A cell phone plan charges a monthly fee of $39.50, plus a rate of $0.25 for every minute talking. What is the total monthly charge if someone talked for 320 minutes on their phone? Fun Friday game link: https://sd83.bc.ca/family-math-games/

Website of the Week

https://billnye.com/the-science-guy
Spend some time exploring a variety of interesting Science videos with Bill Nye the Science Guy.

Numeracy Solutions	
Monday	Frog's mass after a month: 4.3 g x 2.7 = 11.61 g Would You Rather? – answers will vary
Tuesday	Liking peanut butter and jam sandwiches: four out of five students. a) 4/5 b) 4 ÷ 5 = 0.8 c) 80%

	Challenge solution: There are many possible solutions- here are a few- see if you can find more: $\frac{1}{2} = 0.5$ $\frac{1}{5} = 0.2$ $\frac{3}{2} = 1.5$ $\frac{6}{5} = 1.2$
Wednesday	Player One's Outcomes from 10 rolls: 3, 6, 1, 6, 1, 2, 5, 5, 3, 5 Substitute point values [Even (2,4,6) numbers are worth (+1) point and Odd (1,3,5) numbers are worth (-1)]: (-1) + (+1) + (-1) + (+1) + (-1) + (+1) + (-1) + (-1) + (-1) + (-1) = (-7) + (+3) = (-4) Player Two's Outcomes from 10 rolls: 4, 5, 2, 4, 1, 6, 3, 5, 1, 3 Substitute point values: (+1) + (-1) + (+1) + (+1) + (-1) + (+1) + (-1) + (-1) + (-1) + (-1) = (+4) + (-6) = (-2) **Negative 2 is closer to zero than negative 4, therefore Player 2 is the winner** Pattern solution: 5th figure: 15 squares 43rd figure: 129 squares 4th figure perimeter: 26 units 43rd figure perimeter: 260 units
Thursday	Number of washes: 3.56 ÷ 0.04 = 89 washes

Friday	Cost = (Monthly fee) + (Cost per Minute Talking)
	     = \$39.50 + \$0.25 x 320
	     = \$39.50 + \$80
	     = \$119.50