Sixth Grade OSpiraling Review Week 1 of Fourth Six Weeks

Day 1	Betty Jo looks at the clock in her room. She realizes she has 15 minutes until her 3:00 practice is scheduled to start.				
	a) What time is on Betty Jo's clock?b) What type of angle is made by the hands of the clock, when practice starts?c) Name another time where the hands will create the same angle.				
Day 2	Mary went to her neighborhood park. She said it was shaped like the diagram below.				
	 a) Classify the shape. b) If the two acute angles are congruent, what would be the measure of each angle in the shape? c) Explain the process you used to solve. 				
Day 3	Explain the mathematical processes needed to solve the following conversions:				
	 a) kilometers to meters b) liters to kiloliters c) centigrams to milligrams d) deciliters to hectoliters 				
Day 4	Jason went to the store to buy a soda. He saw the following sizes, 6 pints, 40 fluid ounces, 4 quarts, and 2 cups.				
	a) List the soda sizes in order from greatest to least.b) Explain the process you used to solve the problem.				
Day 5	Ralph bought a new sports car that can hold 120 quarts of gasoline. The salesman told him he would average 18 miles per gallon.				
	a) How many gallons of gas will Ralph's car hold? Explain your answer.b) How far can he drive on 1 tank of gas? Explain your answer.				

Sixth Grade OSpiraling Review Week 2 of Fourth Six Weeks

Day 1	Sara is helping her mother sew a standard sized flag with dimensions of 36 inches by 48 inches.				
	 a) Identify the polygon that Sara help her mother to make? b) What are the characteristics of this shape? c) What is the perimeter of the flag? d) What is the area of the flag? 				
Day 2					
	Complete the follo	owing table of val	ues for a given rec	ctangle:	
	Dimensions	Process (Perimeter)	Perimeter	Process (Area)	Area
	4 by 5	, , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , ,	
	7 by 8				
	12 by 11				
	32 by 14				
			· · · · · · · · · · · · · · · · · · ·	· · · · · · ·	
Day 5	A B 4 in. D				
	a) If the length of AB is three times the measurement of BD , what is the length of				
	AB?				
	b) What is the perimeter of the given rectangle?c) What is the area of the given rectangle?				
Day 4	The area of a par	allelogram is 56 i	n ² and the base is	7 in.	
	a) Describe the a	ttributes of a para	llelogram.		
	b) M/bet would b	the beight of this	n norollologram?		
	b) what would be		s parallelogram?		
Day 5	A bird tries to fly high and 4 meters	between some tre s wide at the base	e branches that fo	orm a triangular sp	ace 6 meters
	a) How large is the large is the large is the large term of the large is the large term of ter	ne space created	by the branches c	of the tree?	

Sixth Grade OSpiraling Review Week 3 of Fourth Six Weeks

	rd all work in you	i matri journal.			
Day 1	Plot the following	ordered pairs on a	a coordinate plane	e :	
	(2,	,1), (5,4), (2,4), (13	,1)		
	a) Identify and d	escribe the polyco	n created when w	ou connect the	se vertices?
	b) Approximate	the area of this figu	ire		
	b) Approximate	and anota of and fige			
Dav 2	Mr. Mathers has asked his neighbor, Joseph, to rake his yard below. He will pay				
	Joseph \$2 for every hour he works. Joseph can rake at a rate of 12 square feet per				square feet per
	minute.				
				00.6	
				20 ft	
					14 ft
			8 ft		
	a) Calculate the	perimeter of Mr M	athers' vard	00.6	
	b) What is the a	rea that Joseph mu	ist rake?	26 ft	
	c) Approximately	y how long will it tal	ke Joseph to rake	the yard?	
	d) About how m	uch money should	Joseph earn if he	rakes Mr. Mat	hers' yard?
Day 3	Complete the foll	lowing table of valu	les for a given circ		A
	Radius	Process	Circumference	Process	Area
	2 in	(Circumierence)		(Alea)	
	2 in. 3 in				
	8 in				
	12 in				
	Edith is buying fa	abric at \$3 per var	to decorate her	lamn shade .S	the plans to hot glue
Day 4	Edith is buying fa	abric, at \$3 per yard fabric around the c	d, to decorate her	lamp shade. S de.	She plans to hot glue
Day 4	Edith is buying fa the length of the	abric, at \$3 per yard fabric around the c	d, to decorate her outside of the shad	lamp shade. S de.	She plans to hot glue
Day 4	Edith is buying fa the length of the a) If the lamp sha	abric, at \$3 per yard fabric around the c ade has a radius of	d, to decorate her outside of the shad	lamp shade. S de. nuch fabric sho	She plans to hot glue
Day 4	Edith is buying fa the length of the a) If the lamp sha b) How much mo	abric, at \$3 per yard fabric around the c ade has a radius of oney will Edith spe	d, to decorate her outside of the shad 14 inches, how n nd on fabric?	lamp shade. S de. nuch fabric sho	She plans to hot glue
Day 4	Edith is buying fa the length of the a) If the lamp sha b) How much mo	abric, at \$3 per yard fabric around the c ade has a radius of oney will Edith spe	d, to decorate her outside of the shad 14 inches, how n nd on fabric?	lamp shade. S de. nuch fabric sho	She plans to hot glue
Day 4 Day 5	Edith is buying fa the length of the a) If the lamp sha b) How much mo Mr. Finan just co	abric, at \$3 per yard fabric around the c ade has a radius of oney will Edith spe mpleted his work o	d, to decorate her outside of the shad 14 inches, how n nd on fabric?	lamp shade. S de. nuch fabric sho for his living ro	She plans to hot glue buld she buy?
Day 4 Day 5	Edith is buying fa the length of the a) If the lamp sha b) How much mo Mr. Finan just co	abric, at \$3 per yard fabric around the c ade has a radius of oney will Edith spe mpleted his work o	d, to decorate her outside of the shad 14 inches, how n nd on fabric? In a circular table	lamp shade. S de. nuch fabric sho for his living ro	She plans to hot glue buld she buy?
Day 4 Day 5	Edith is buying fa the length of the a) If the lamp sha b) How much mo Mr. Finan just co a) What is the cir	abric, at \$3 per yard fabric around the c ade has a radius of oney will Edith spe mpleted his work o cumference of the	d, to decorate her outside of the shad 14 inches, how n nd on fabric? In a circular table table if the diame	lamp shade. S de. nuch fabric sho for his living ro ter is 4 feet?	She plans to hot glue ould she buy?
Day 4 Day 5	Edith is buying fa the length of the a) If the lamp sha b) How much mo Mr. Finan just co a) What is the cir b) Explain the ma c) What is the ap	abric, at \$3 per yard fabric around the c ade has a radius of oney will Edith spe mpleted his work o cumference of the athematical proces	d, to decorate her outside of the shad 14 inches, how n nd on fabric? n a circular table table if the diame s needed to solve the table?	lamp shade. S de. nuch fabric sho for his living ro ter is 4 feet?	She plans to hot glue buld she buy? om. a for area of a circle.

Sixth Grade OSpiraling Review Week 4 of Fourth Six Weeks

Day 1	Cody is conducting an experiment in his science class today and uses a triple-beam balance to measure the mass various objects from around the room.
	a) What is an appropriate unit for Cody to use when measuring mass?b) If an eraser is 3.5 grams, what is this measure in milligrams?c) Cody's desk is 22 kilograms, what is this measure in decigrams?
Day 2	Alison is making 4 gallons of punch for her friend's upcoming birthday party.
	a) How many pints is this?b) How many cups is this?c) How many fluid ounces is this?
Day 3	Identify a unit from both the metric and customary systems that would be the most appropriate to use in the given situation:
	 a) The length of your driveway to the bus stop b) The width of your classroom c) The length of your desk d) The height of the trashcan e) The length of a straw
Day 4	 The town of Tower, Minnesota has some of the lowest temperatures on record. On one day, the temperature was 12°F at 6:30 am. By 1:45 pm, the temperature had risen 19 degrees. a) How much time had elapsed? b) What was the temperature at 1:45 pm?
	b) what was the temperature at 1.45 pm?
Day 5	Over three consecutive days in December, Amarillo received $1\frac{1}{2}$, 2.75, and 4 inches of snow.
	 a) How many total inches of snow did Amarillo receive over the three days? b) One day the high temperature was 33°F at 5:10 pm, what was the temperature at 7:40 pm if the temperature decreased two degrees every half hour?

Sixth Grade OSpiraling Review Week 5 of Fourth Six Weeks

Day 1	 Marcus has a four-sided figure and tells his friend that his it is a parallelogram with four right angles and four congruent sides. His friend says his figure could be a rhombus. a) Is his friend correct? Explain. b) Is there another name for the figure? If so, what is it? c) Use geometric vocabulary and definitions to justify your reasoning.
Day 2	Mary Jo works at the local pizza restaurant. Her boss told her that each pizza should have 12 pieces of pepperoni and 4 mushrooms.
	a) What is the ratio of mushrooms to pepperoni on a pizza?
	b) If she has 108 pieces of pepperoni, how many pizzas can she make?
	c) If she is making 12 pizzas, how many mushrooms will she need?
Day 3	Dillon is creating a diorama using a shoebox. The dimensions of the box are 8 inches by 12 inches by 16 inches.
	a) What is the volume of the shoebox in cubic inches?
Day 4	If the volume of a cube is 512 in ³ .
	a) What are the measures of the length, width, and height?
Day 5	Jesse is buying his girlfriend a new jewelry box. The height is 4 inches, the width is 6 inches, and the length is 10 inches.
	a) What is the perimeter of the top of the jewelry box?b) What is the area of the top of the jewelry box?c) What is the volume of the jewelry box?

Sixth Grade OSpiraling Review Fourth Six Weeks

Answer Keys

(pp. 1 of 3)

Week 1 Answer Key: Processes may vary.

Day 1	a) 2:45
	b) Right angle or 90°
	c) Answers may vary. Sample: 9:00
Day 2	a) A right triangle
	b) 45 degrees, 45 degrees, 90 degrees
	c) $180 - 90 = 90$ and $90 \div 2 = 45$
Day 3	a) Multiply by 1000
	b) Divide by 1000
	c) Multiply by 1000
	d) Divide by 1000
Day 4	a) 4 quarts, 6 pints, 40 fluid ounces, 2 cups
	b) The students need to convert all amounts to the same unit of measure. Answers will
	vary. 4 quarts = 16 cups, 6 pints = 12 cups, 40 Fluid Ounces = 5 cups, 2 cups = 2 cups
Day 5	a) 30 gallons. Answers may vary.
	b) 540 miles; 18 x 30 = 540. Answers may vary.

Week 2 Answer Key: Processes may vary.

Day 1	a) A rectangle					
	b) 4 sides; opposite sides are parallel and have equal length					
	c) 168 in.					
	d) 1,728 in. ²					
Day 2	Dimensions	Process	Perimeter	Process	Area	
		(Perimeter)		(Area)		
	4 by 5	2(4) + 2(5)	18	4(5)	20	
	7 by 8	2(7) + 2(8)	20	7(8)	56	
	12 by 11	2(11) + 2(12)	46	12(11)	132	
	32 by 14	2(32) + 2(14)	92	32(14)	448	
Day 3	a) 12 inches					
	b) 32 inches					
	c) 48 in. ²					
Day 4	a) 4 sides, oppos	site are sides para	llel			
	b) 8 inches					
Day 5	6(4) 10 2					
-	a) $\frac{1}{2}$ = 12 m ⁻					

Sixth Grade OSpiraling Review Fourth Six Weeks Answer Keys

(pp. 2 of 3)

Week 3 Answer Key: Processes may vary.

Day 1	a) Trapezoid					
	b) 24 u ²					
Day 2	a) 80 ft.					
	b) 328 ft. ²					
	c) 27 hours					
	d) \$54.00					
Day 3	Radius	Process	Circumference	Process	Area	
		(Circumference)		(Area)		
	2 in.	2(2) π	≈12.57 in.	$2^{2}(\pi)$	≈12.57 in. ²	
	3 in.	3(2) <i>π</i>	≈18.85 in.	$3^{2}(\pi)$	≈28.27 in. ²	
	8 in.	8(2) <i>π</i>	≈50.27 in.	$8^{2}(\pi)$	≈201.06 in. ²	
	12 in.	12(2) <i>π</i>	≈75.39 in.	$12^{2}(\pi)$	≈452.39 in. ²	
Day 4	a) ≈ 2.5 yards					
-	b) ≈ \$7.50					
Day 5	a) ≈12 ft					
-	b) You must first	square your radius	, and then multiply	[,] by pi.		
	c) ≈12 ft ²					

Week 4 Answer Key: Processes may vary.

Day 1	a) Grams
	b) 3500 mg
	c) 220,000 decigrams
Day 2	a) 32 pints
	b) 64 cups
	c) 512 fluid ounces
Day 3	Answers will vary
_	a) meters, yards
	b) meters, feet, yards
	c) centimeters, inches
	d) centimeters, inches
	e) millimeters, inches
Day 4	a) 7 hours 15 minutes
	b) 31 °F
Day 5	a) 0 ¹ inches
	b) 26 °F

Sixth Grade OSpiraling Review Fourth Six Weeks

Answer Keys (pp. 3 of 3)

Week 5 Answer Key: Process may vary

Day 1	a) Yes, a rhombus by definition has four congruent sides
	b) Square, a square has four right angles and four congruent sides
	c) Answers will vary.
Day 2	a) 1 to 3
	b) 9 pizzas
	c) 48 mushrooms
Day 3	a) 1,536 inches ³
Day 4	a) 8 inches
Day 5	a) 32 inches
	b) 60 square inches
	c) 240 cubic inches