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Name: Community					
	Math 7/Scian	ce Checklist: 04 W	<u> 'eeks 3 &amp; 4 - April 23rd</u>	May 4th	
Big Ideas:	<u>Maui //Scien</u>	ice Checkhist. V7 W	CONSUCT APINEOIU	A. A.Y.J. A. 742	
Math:  Change in Dimensions and Area  Area of Inscribed and Composite Figures			Science:		
<u>Upcoming Dates:</u>					
Week 1			Week 2		
□ 4/23: ELA MAP test □ 4/25: Math MAP test		□ 4/30: Science Test □ 5/1: 7th-Mr. Doug, 8th -Mr. Brian Math/Science split AND Study Guide Due □ 5/2-5/4 Spring Field Experience			
Shelfwork: Show A Complete individua			xed against the control a	and then marked complete.	
Lesson		lore	Expand	Extend	
☐ HW Dimension and Composite Video ☐ #1 Lesson Check-In 4/24	SHOW ALL WORK  Exploring the Effects of Changing Dimensions on Area (/,M,0) AND  Parts Sectioned Off Versatile OR Pi problems (/,M,0)		SHOW ALL WORK  ☐ Geometry Study Guide (%)	□ purple book p. 281 & 282 (%)	
Monday's work plan: (Ad	ld missing works from	last checklist)	Tuesday's work plan:  Time Estimate:		
□Lesson #1: Food Chains/Webs □ Lesson Check-In 4/26	☐ Food Chains and Webs Task Cards Choose any three (√, M, 0)		□ <u>Food Webs/Chains</u> <u>Analysis(</u> %)	□ Biogeochemical Cycles  Webquest (%)  □ Choice Extension Proposal (%)	
Wednesday's work plan: Time Estimate:			Thursday's work plan: Time Estimate:		
Lesson #2: Ecological Pyramids Lesson Check-in 4/27			□ <u>Ecological Pyramid</u> Analysis	□ Calculating Your Carbon Footprint (%) □ Choice Extension Proposal (%)(%)	
Friday's work plan:					
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Time Estimate:

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$\frac{1}{2} \left( \frac{1}{2} \left$	□ Friday 5/4: Spring Field Study!
	☐ Thursday 5/3: Spring Field Study!
$\mathcal{L}_{\mathcal{L}}}}}}}}}}$	
	Manage Plant and Company of the
\$	Tuesday 5/1: Get work clothes ready and pack a change of cloth
	□ Monday 4/30: Check packing list for needed supplies
st on Monday	□ Friday 4/27:Review study guide and EdPuzzle videos for the tea
1	☐ Thursday 4/26: Ecological Pyramids video on EdPuzzle w/ Gl
organizer on EdPuzzie	Wednesday 4/25: Food Chains and Webs video with graphic
	the morning.
แระ เมริม คือเลเม การสหาสระ กรางาร เมธางเส เมราม	Tuesday 4/24: Eat a good dinner, get to sleep early have a r
i tagt GAM digM odt orgånd tagtioned mistore daid och	Monday 4/23: Change In Dimension And Area and Area Of Inso
ire due the next day unless noted):	Homework: (All HW assignments are to be done independently and o

Approximate the property of the second positive second contractions.

## **Change in Dimensions Notes**

Name\_\_\_\_

Original Rectangle	Rectangle 1	Rectangle 2	Rectangle 3	
Length = Width = Area =	Length = 8 cm Width = 3 cm Area =  When the length and the width the area	Length = 4 cm Width = 6 cm Area =  When the length and the width the area	Length = 8 cm Width = 6 cm Area =  When the lengthand the width, then the area	

Original Circle	Circle 1	Circle 2	
Radius =	Radius = 2 cm	Radius = 3 cm	
Area =	Area =	Area =	
	When the radius then the area	When the radius then the area	

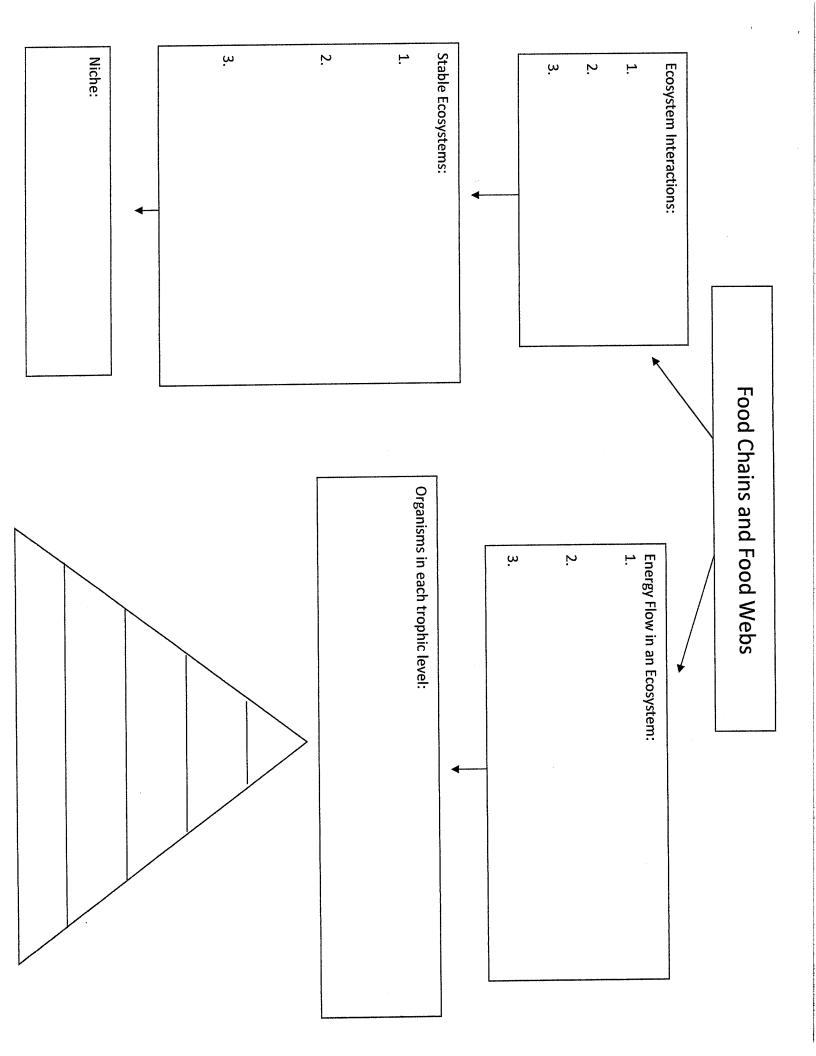
Pause the video and try these on your own!

Then press play and check your answers with a color pen.

- 1. Looking at the original rectangle, what would happen to the area if you tripled the length, but kept the width the same? \_\_\_\_\_
- 2. Looking at the original rectangle, what would happen to the area if you tripled the length and the width? \_\_\_\_\_
- 3. Looking at the original circle, what would happen to the area if you quadrupled the radius?
- 4. Looking at the original circle, what would happen to the area if you multiplied the radius by 7?

Area of insc	cribed and Cor	inposite rigures in	ioles	Name
Composite Figure	_ the areas together			
Inscribed Figures	: Find the area of	figure separately and		the areas
Don't forget to sh 1) Name the shape	ow all of your steps: 2) Give the formula	3) Substitute in the values	4) Solve	5) Add the units
1. 9 yd 8 yd	·			
2. 5 yd				
Pause the v	video and try these or play and check your	n your own! answers with a color pen.		
7 cm 7 cm 1.				
25 cm 20 cm 2.				
14 mm				

3.

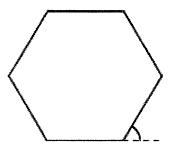


Student:

Class:

Date:

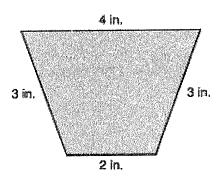
- 1. On a scale drawing, a building is  $5\frac{3}{4}$  inches tall. If 1 inch represents 10 feet, what is the actual size of the building in feet?
  - A 50 1
  - B.  $50\frac{3}{4}$
  - C.  $57\frac{1}{2}$
  - D. 57 3
- 2. Two students created models of the same building. One student used a scale factor of 3 centimeters (cm) = 15 meters (m). The second student used a scale factor of 4.5 = 15 m. The height of the original building is 20 meters. What is the difference between the heights of the two students' models?
  - A 1.5 cm
  - B. 2 cm
  - c. 6.5 cm
  - D. 33 cm
- The sum of the interior angles of the regular polygon below is 720°. One exterior angle of the polygon is shown.



What is the measure of each exterior angle?

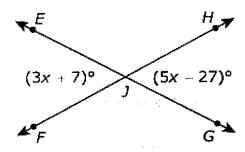
- A 60
- B. 72
- c. 108
- D. 120

3. This diagram shows the plan for a wooden deck. The scale dimensions of the deck are shown.



If the scale used in the diagram is  $\frac{1}{4}$  in = 1 ft, what is the perimeter of the actual deck?

- A 3 ft
- B. 12 ft
- C. 36 ft
- D. 48 ft
- In this figure, line EG intersects line FH at point J.

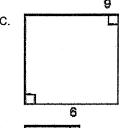


What is the measure of  $\angle \textit{EJF}$ ?

- A 17°
- B. 37°
- c. 58°
- D. 82°

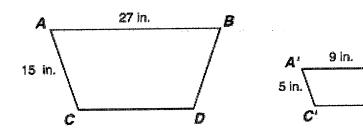
4. Which of the following figures is a dilation of the given square with a scale factor of  $\frac{1}{3}$ ?

A 3 B. 3



D. 3 1/3

5. Figure ABCD below is a dilation of Figure ABCD.



Note: The figures are not drawn to scale.

What scale factor was used to create Figure ABCD?

- A  $\frac{1}{3}$
- B. 3/5
- C. 3
- D. 10

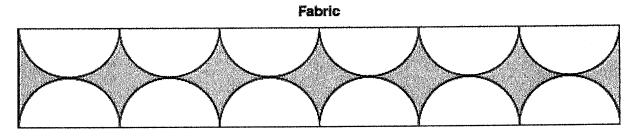
6. Which choice shows three lengths that *cannot* be the lengths of the three sides of a triangle?

- A 2 cm, 8 cm, 8 cm
- B. 2 cm, 3 cm, 6 cm
- c. 4 cm, 5 cm, 7 cm
- D. 5 cm, 6 cm, 9 cm

7. Keith is trying to construct a  $\triangle ABC$ . Which measures will determine a unique triangle?

- A BC = 5 cm; m $\angle B = 70^{\circ}$ ; m $\angle C = 110^{\circ}$
- B. BC = 5 cm;  $m \angle B = 90^{\circ}$ ;  $m \angle C = 110^{\circ}$
- C. BC = 5 cm;  $m\angle B = 60^{\circ}$ ;  $m\angle C = 90^{\circ}$
- D. BC = 5 cm;  $m\angle B = 90^{\circ}$ ;  $m\angle C = 90^{\circ}$

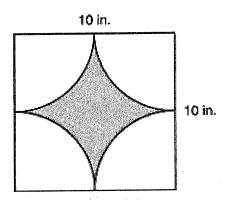
- 8. Emilio's teacher asks him to draw a triangle that contains a right angle. Two of the three sides of the triangle must have measurements of 5 inches and 7 inches. How many possible measurements are there for the third side of the triangle?
  - A 0
  - B. 1
  - C. 2
  - D. 3
- 9. Millie is drawing a triangle. One side has a length of 9 units, and another side has a length of 6 units. What could be the length of the third side of the triangle?
  - A 3 units
  - B. 7 units
  - c. 15 units
  - D. 18 units
- 10. A rectangular piece of fabric with a design made up of semicircles is shown below. Each semicircle has a radius of 7 centimeters.



- What is the area of the shaded part of the fabric, in square centimeters? Show your work or write an explanation to support your answer. Give your solution using a complete sentence.
- 11. The circle at the center of a college basketball court has a diameter of 12 feet. What is the approximate area of this circle? (Use  $\pi = 3.14$ .)
  - A 18.84 sq ft
  - B. 37.68 sq ft
  - C. 113.04 sq ft
  - D. 452.16 sq ft

12. Which is the closest to the perimeter of the shaded figure inside the square? Use 3.14 for

π.



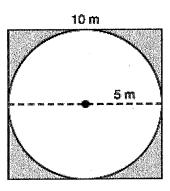
- A 21.5 inches
- B. 31.4 inches
- C. 40 inches
- D. 100 inches
- 13. A park has a circular goldfish pond. The area of the surface of the pond can be found by using this formula.

$$A = \pi r^2$$

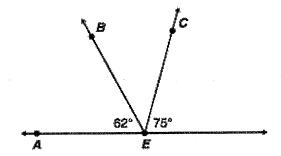
What is the area, A, of the surface of the pond if its radius, r, is 5 feet? (Use 3.14 for  $\pi$ .)

- A 78.5 square feet
- B. 31.4 square feet
- C. 15.7 square feet
- D. 10.14 square feet

14. Which is the closest to the area of the shaded region in the given square containing a circle? (Use  $\pi \approx 3.14$ .)

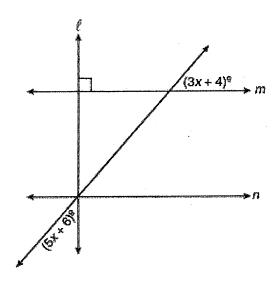


- A 21.5 square meters
- B. 50 square meters
- C. 78.5 square meters
- D. 100 square meters
- 15. Given the information in the diagram below, what is the measure of  $\angle BEC$ ?



- A 13°
- B. 43°
- C. 68.5°
- D. 137°

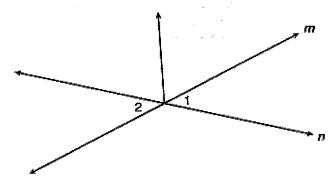
<sup>16.</sup> In the figure below, Lines m and n are parallel. Line  $\ell$  is perpendicular to Line m.



What is the value of x in this figure?

- A 1
- B. 10
- C. 13.7
- D. 21.3

17. Based on the diagram below, which statement could be used to prove  $\angle 1 \cong \angle 2$ ?



- A Vertical angles are congruent.
- B. Supplementary angles are congruent.
- C. Complementary angles are congruent.
- D. Two angles that form a linear pair are congruent.