Week 6 Monday Warm-up

Do page 2.05 as a warm-up....

More Related Statements

reason deductively. (Careful!!!!)



For each implication, write the converse, inverse, and contrapositive. Indicate whether each new statement is true or false.

ne	w Statement is true of faise.	
1.	Implication: If I live in Sacramento, then I live in California.	
	Inverse:	
	Contrapositive:	
2.	Implication: If a number is positive, then it is greater than 6.	
	Converse:	
	Inverse:	,
	Contrapositive:	
3.	Implication: If a figure is a triangle, then it is a polygon.	
	Converse:	
	Inverse:	
	Contrapositive:	
		•
4.	Write the converse of: If the moon is full, the vampires are out.	
5.	Write the contrapositive of: If a giraffe has a sore throat, then gargling doesn't help much.	
6.	Write the inverse of: If we've been receiving signals from Jupiter, it may not be wise to go there.	

7. Write the converse of: You cannot comprehend geometry if you do not know how to

Cool-down.....

- 1. Identify the type of reasoning as inductive or deductive. (I or D)

 If a number less than 3 is 40 then the number is 43.
- 2. Write the inverse of: If I don't eat ice cream, then I don't get a stomach ache.
- 3. Write the contrapositive of: If it rains, then the cat wants in the house.
- 4. Write the converse of: If it is Wednesday, then school gets out at 2:16 p.m.
- 5. Use inductive reasoning reasoning to fill in the pattern.

a. 1, 1, 2, 3, 5, 8, ____, ____

b. 810, 270, 90, ____, ____,

6. Find the solution to the system of equations.

-4x+9y=9

$$x-3y=-6$$

Geometry S1 week 6 Tuesday

Warm-up

- 1. Find the area of an equilateral triangle with sides equal to 14 feet.
- 2. Write the inverse of:

 If it rains, then the cat wants in the house.
- 3. Write the contrapositive of:
 If it is Wednesday, then school gets out at 2:16 p.m.
- 4. Write the converse of:

 If I sleep until noon, then it is Saturday.
- 5. If a segment has a midpoint of (-3,4) and one other endpoint of (6, -1), find the other endpoint.
- 6. Write a counterexample to show that the following conditional statement is false.

If $x^2 = 100$, then x = 10.

7. Multiply: $(2x-3)^2$

Week 6 Block Day Warm-up

1 Th	nenegates both the hypothesis and e conclusion of the conditional statement.	The switches the hypothesis and conclusion of the conditional statement.
,	A Converse	A Converse
ı	B Inverse	B Inverse
(C Contrapositive	C Contrapositive
	D Biconditional	D. Biconditional

- 3 What is the contrapositive of the following conditional
 - statement:
 If I learn from my formative assessments, then I will earn a higher grade in geometry.
 - A If I do not learn from my formative assessments, then I will not earn a higher grade in geometry.
 - $\mbox{B} \quad \mbox{If I } \mbox{earn a higher grade in geometry, then I learn} \\ \mbox{from my formative assessments.}$
 - $c \quad \mbox{$I$ will learn from my formative assessments if and only} \\ if \ \mbox{I earn a higher grade in geometry.}$
 - $D = \begin{array}{ll} \text{If I do not earn a higher grade in geometry, then I did} \\ \text{not learn from my formative assessments} \end{array}$

- 4 Identify the type of reasoning as inductive or deductive (I or D).
 - I noticed that a Henry turned around to flirt during the warm-up Monday, Tuesday, and Block Day. I conclude that Henry flirts during warm-ups.

Week 6 Block Day Warm-up

5	Identify	the type	of reaso	ning as	inductive	or deductive
	(Lor D)					

Dillon is one year old. His sister Lily concludes that Dillon will start kindergarten in four years.

- 6 Identify the type of reasoning as inductive or deductive (I or D).
- If twice a number less five is one then the number is three.

- 7 Write the inverse of the following conditional statement.
 - If I text during class, then my teacher will take my phone away.
- 8 Write the contrapositive of the following conditional statement.

If I stay up late, then it is Saturday.

Week 6 Block Day Warm-up

9 Write the converse of the following conditional statement

If I sleep late, then I'm happy.

Geometry S1 Week 6 Friday Warm-up

Find a pattern for each sequence. Use the pattern to show the next two terms.

- **1.** 5, 11, 18, 26, ...
- **2.** A, B, D, E, G, H, ...
- **3.** -3, 6, -12, 24, -48, ...
- **4.** 1, 5, 30, 210, 1680, ...

Find one counterexample to show that each conjecture is false.

- **5.** The sum of two integers is always positive.
- **6.** The product of two mixed numbers is never a whole number.
- **7.** All four-sided figures are rectangles.

Factor completely.

- 8. $x^2 + 7x 8$ 9. $10x^2 28x + 16$