

June 10, 2016

Happy LAST FRIDAY OF THE SCHOOL YEAR!!!!

I know you will be GREAT the sub. REMEMBER, YOUR UNIT TEST IS MONDAY!!!!!! Names left may be excluded from the Spirit Trip and/or the dance. I know I don't have to worry because you are such a great class :)

Here is what I need you to do today: please do the all the ACE questions for Investigation 5. These are on page 88-102. The numbers are 1-46. You may work with a neighbor listen to music. Everyone needs to do their own work and you may use a calculator. I left the answers with the sub in case you want to check your work. When you are done, work on this Review Packet. Get as much done as you can. Take this home to study!

Thank you in advance for being so awesome! NO TEXTING, PICTURES, VIDEOS, SNAPCHAT OR INSTAGRAM. Remember, your behavior can impact your ability to go to the dance and/or the spirit trip. If you can do these problems, you will do GREAT on the test. Do your best!

Only one more week.....

What to study for the Math 8 Plus Unit Test:

- The Pythagorean Theorem!!!! $a^2 + b^2 = c^2$
- Connect points on a grid to make a figure (Inv. 1)
- Names and properties of four-sided figures (Inv. 1)
- Find the lengths of sides of figures WITHOUT using a ruler (Inv. 2)
- Finding square roots (Inv. 2)
- Finding cube roots (Inv. 2)
- Finding the area and perimeter of irregular figures (Inv. 1)
- Finding side lengths of triangles using 30-60-90 rules (Inv. 5)
- Converting fractions to decimals (Inv. 4)
- Classifying rational and irrational numbers (Inv. 4)
- Creating an equation to find the radius of a circle on a coordinate plane (Inv. 5)

Name _____ Date _____ Class _____

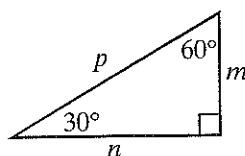
Skill: Special Right Triangles

Investigation 4

Looking for Pythagoras

The length of one side of the triangle is given in each row of the table. Find the missing lengths for that triangle.

	m	n	p
1.	14		
2.			36
3.		$9\sqrt{3}$	
4.	5		



Arrange the following on a number line:

$$\frac{13}{3}, \sqrt{7}, \sqrt{16}, \sqrt{13}, 2.3, \sqrt[3]{8}$$



Find 2 perfect square numbers that add to give you the given sum.

Ex: $\underline{9} + \underline{16} = 25$

1. $\underline{\quad} + \underline{\quad} = 10$

3. $\underline{\quad} + \underline{\quad} = 29$

2. $\underline{\quad} + \underline{\quad} = 26$

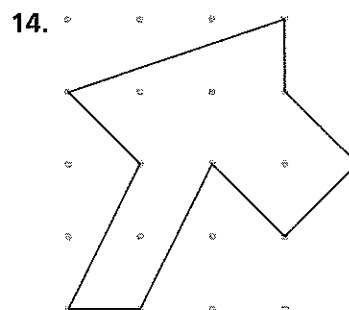
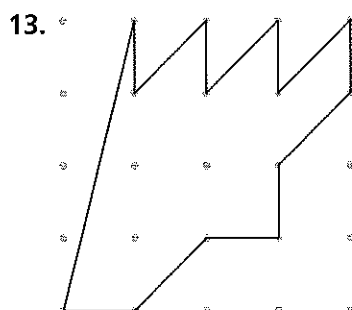
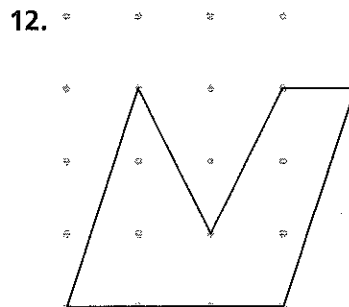
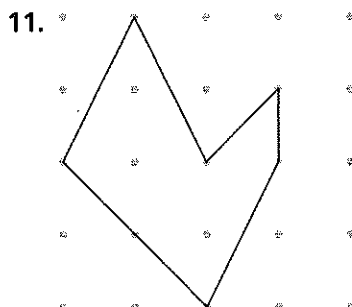
4. $\underline{\quad} + \underline{\quad} = 170$

Additional Practice *(continued)*

Investigation 1

Looking for Pythagoras

For Exercises 11–14, find the area of the figure. Explain our reasoning.



Additional Practice *(continued)*

Investigation 2

Looking for Pythagoras

11. For each number sentence below, decide if it is true (T) or false (F):

a. $7 = \sqrt{49}$

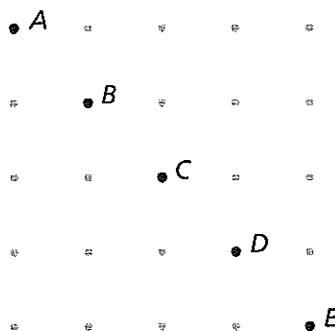
b. $7 = -\sqrt{49}$

c. $-7 = \sqrt{49}$

d. $-7 = -\sqrt{49}$

SKIP

12. Points A, B, C, D, and E are shown on the grid below:



Using these 5 points only, list all line segments which have the following lengths:

$\sqrt{2}$

$2\sqrt{2}$

$3\sqrt{2}$

$4\sqrt{2}$

$5\sqrt{2}$

13. List all the whole numbers that could be substituted for x so that the expression is true.

a. $4 < \sqrt{x} < 5$

b. $8 < \sqrt{x} < 9$

c. $0 < \sqrt{x} < 1$

Skill: Exponents and Square Roots**Investigation 2****Looking for Pythagoras**

Find the value of each square root.

1. $\sqrt{64}$

2. $\sqrt{81}$

3. $\sqrt{100}$

4. $\sqrt{144}$

Find the length of the side of a square with the given area.

5. 121 ft^2

6. 4 mi^2

7. 225 in.^2

8. 196 yd^2

Find two consecutive whole numbers that each number is between.

9. $\sqrt{80}$

10. $\sqrt{56}$

11. $\sqrt{130}$

12. $\sqrt{150}$

13. $\sqrt{70}$

14. $\sqrt{190}$

15. $\sqrt{204}$

16. $\sqrt{159}$

Estimate each square root to one decimal place.

17. $\sqrt{18}$

18. $\sqrt{24}$

19. $\sqrt{50}$

20. $\sqrt{8}$