

Name: _____

Date: _____

Geometry Test Review

THINGS TO KNOW

If you are unsure about any concepts, star them. Make sure to review all concepts before the test, and check off the items you have completed once you have reviewed them.

- Measuring and classifying angles (right, straight, reflex, obtuse and acute)
- Classifying triangles (isosceles, right angle, scale, equilateral)
- Drawing and identifying lines (perpendicular, transversal, parallel)
- Angle relationships (opposite angles, supplementary angles, complementary angles, F pattern (corresponding) and Z pattern (alternate))
- The sum of angles in a triangle and rectangle/ square
- The total degrees of a circle
- Pythagorean Theorem
- Solving multi-step word problems

TYPES OF QUESTIONS

- a) Technique questions
- b) Communication questions
- c) Application questions
- d) Thinking questions

HOW TO STUDY

To be successful on any math test, you need to take time to not only review the concepts, but also practice technique, communication and application problems. It is not enough to just read over your notes! Look at the types of questions above, and make sure that you can communicate and apply concepts and think of creative solutions.

To study, you should:

- Read over everything that will be on the test, and star the concepts you need to review
- Make sure that you have all of the lesson notes and collect the ones that you are missing
- Review all the lesson notes, and make a study sheet that **synthesizes** all the important concepts
- Review all homework and assignments, and retry some questions. Pay special attention to communication, thinking and application questions!
- Make a practice test for yourself or a partner and try it
- Come for extra help at recess if you need it

ONLINE RESOURCES:

<http://passyworldofmathematics.com/angles-and-parallel-lines/>
<http://www.onlinemathlearning.com>

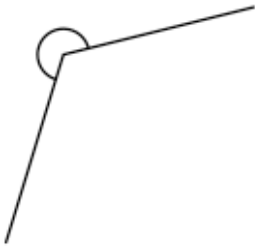
Name: _____

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Use your protractor to extend the lines and measure each angle.

(1)



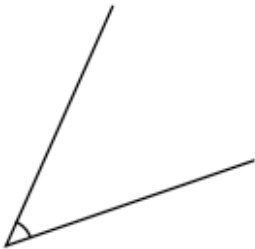
This angle is _____ degrees.

(6)



This angle is _____ degrees.

(2)



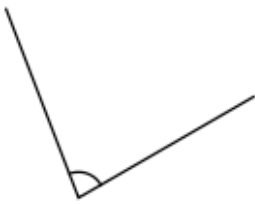
This angle is _____ degrees.

(7)



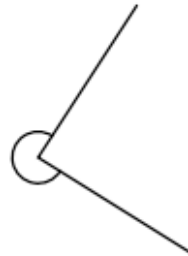
This angle is _____ degrees.

(3)



This angle is _____ degrees.

(8)



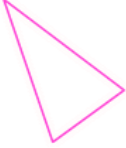

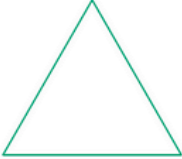

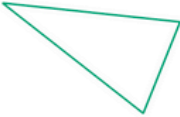

This angle is _____ degrees.

Solve for the missing angles below:

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Classify the triangles below by their angles and sides. Measure all angles and sides using a protractor, and record your findings. Write the type triangle below.

1a. 	1b. 
2a. 	2b. 
3a. 	3b. 

Solve for the missing side:

Name: _____

Date: _____

B) COMMUNICATION QUESTIONS

1) Draw two parallel lines below. Draw a transversal line that crosses them. Explain, in words and pictures, the angle relationships you have created.

2) What is the difference between an equilateral and a scalene triangle? Can a triangle ever be equilateral and scalene? Why or why not? Explain using pictures, numbers and words.

3) A reflex angle measures the outside angle. Draw a picture of a reflex angle. Explain, using pictures, words and examples, how you would solve a reflex angle.

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C) APPLICATION QUESTIONS

1) Ms. Kukurudza is trying to learn how to golf. She notices that she can hit her ball 12m straight and then 5m directly right, at right angle, or she can hit her ball along a diagonal. Draw a diagram showing Ms. Kukurudza's two options. Which distance is shorter? Explain why, using proof.

What I Know	What I Want to Know	How I Can Find Out
Diagram:		Solution:
Sentence:		

Name: _____

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2) Two parallel roads are being built in Mount Albert, 6 km apart. A train track is going to cross both roads on a diagonal transversal. The road engineer knows that the train track will cross the first road to form 50 degree supplementary angle, but wants to know the then angles it will form when it crosses the second road. Can you help?

What I Know	What I Want to Know	How I Can Find Out
Diagram:		Solution:
Sentence:		

Name: _____

Date: _____

C) THINKING QUESTIONS

- 1) Sarah, trying to find her way home from the Mount Albert dance, travelled west for 3km then went north for 6 km. She paused for a break, and then went north another 4 km. How far is she from where she started?

What I Know	What I Want to Know	How I Can Find Out
Diagram:		Solution:
Sentence:		