Year 8 Test – Angles and Parallel Lines

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

PLEASE NOTE: DIAGRAMS ARE NOT TO SCALE

Question 1: Find the value of the pronumeral in the following (10 marks)

1. 2.

 

3. 4.

 

5. 6.

 

7. 8.

 

9. 10.

 

Question 2: (10 marks)

Circle the correct answer for 1 to 3

1. In which of the following diagrams are *a* and *b* alternate angles?



1. In which of the following diagrams are *a* and *b* corresponding angles? 
2. In which of the following diagrams are *a* and *b* co-interior angles? 

Mark the following statements True or False

1. Corresponding angles are complementary True / False
2. Alternate angles are equal in size True / False
3. Co-interior angles add up to 360o True / False
4. Alternate angles are always acute True / False
5. Corresponding angles are equal in size True / False
6. Co-interior angles are equal in size True / False
7. Co-interior angles are always obtuse True / False

Question 4: Find the pronumeral, give reasons (10 marks)

1. 2.

 

3. 4.

 

5.



Question 5: Find the pronumerals (10 marks)

1.

2. 

3. 

4. 

Extension : Optional (10 marks)

1. The size of two complementary angles are 16z-9 and 4z+3.   
   Find the size of the angles. (3 marks)
2. Three angles in a triangle are 5x +20, 6x + 5 and 3x + 15. Write an equation, use it to solve for x. (1 mark)
3. A ship sails from A to B on a bearing of 060. What bearing does it need to sail to sail from B to A? You must include a diagram. (3 marks)
4. What are the bearings for the following directions ( 3 marks)
   1. NE
   2. SW
   3. NNE