**M10C Trigonometry Quiz C1-C4 / 11 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***You must show ALL work to receive full marks.***

1. Label this triangle with ***hypotenuse***, ***adjacent***, and ***opposite***, with **respect to angle G.**

**[1 mark]**

J

H

G

2. Given the diagram below, determine the length of side *a*, rounded to the nearest tenth.

**[1 mark]**

**A**

**B**

**C**

14

53

3. In the triangle shown, determine ∠B to the nearest degree. **[1 mark]**

7 cm

11 cm

**B**

**A**

**C**

4. For the triangle LMN, calculate the measure of side *m*, rounded to the nearest tenth of a metre. **[1 mark]**

M

L

N

18.3 m

24o

*m*

5. Solve triangle ABC. Find **∠A** to the nearest degree and sides ***b*** and ***c*** to the nearest tenth of a centimetre. **[3 marks]**

5.8 cm

C

*b*

A

B

64°

∠A= *a* = 5.8cm

∠B= 90° *b* =

∠C= 64° *c* =

6. The angle of depression from a bird at the top of a tree, to a cat on the ground, is 57º. The height of the tree is 18.5 m. **Draw** a diagram to represent this problem, then **determine** the distance between the cat and the base of the tree, rounded to the nearest tenth. **[2 marks]**

7. The two triangles below are joined by a common side. **Determine** the value of ***x*** in the diagram above, rounded to the nearest tenth. **[2 marks]**

12 m

31º

42º

***x***