**Right Trigonometry Review – The Basics Name: \_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Determine the missing angle in each triangle.

a) b) c)

60°

75°

45°

1. Determine the missing side in each triangle.

a) b)

9 cm

12 cm

6 in

8 in

c) d)

41 ft

9 ft

3 m

5 m

1. Paul rows across a river that is 84m wide. If he traveled a total of 89m, how far down stream did the current carry him? (Rounded to the nearest tenth)
2. A square nut has sides of 1.2 cm. Determine the length of the diagonal, *d*, rounded to the nearest tenth.

d

1.2cm

1.2cm

1. Calculate the lengths of *x* and *y* in the diagrams below. Give your answers correct to 1 decimal place where appropriate. All dimensions are given in cm.

a) b) c)

*y*

18.5

21.3

22.5

*x*

5

*x*

9

*y*

4

*y*

*x*

9

10

8

**Answers**

1. a) 30° b) 45° c) 15° 2. a) 10in b) 15cm c) 4m d) 40ft

3. x = 29.4m 4. d = 1.7cm

5. a) x = 6, y = 6.7 b) x = 10.6, y = 19.9 c) x = 7.5, y = 12.5