The following questions are to be solved using the sine ratio only.

1. ABC is a right-angled triangle with the angle at A = 90° .
   What is the length of the side AB, with the following values for the hypotenuse BC
   and the angle at C ?(all distances in cm, answers to 2 d.p.)

   (a) 5, 30° (b) 12, 45° (c) 18, 60°

   (d) 21, 50° (e) 19, 28° (f) 13, 75°

   (g) 9, 15° (h) 37, 65° (i) 41, 42°

2. ABC is a right-angled triangle with the angle at B = 90° .
   What is the length of the side AC, with the following values for the side BC and the
   angle at A ?(all distances in cm, answers to 2 d.p.)

   (a) 7, 35° (b) 12, 48° (c) 22, 52°

   (d) 31, 71° (e) 28, 63° (f) 13, 44°

   (g) 25, 42° (h) 14, 19° (i) 39, 81°

3. Using the values for the hypotenuse and one side of a right angled triangle,
   calculate the unknown interior angles. (all distances in cm, answers to 1 d.p.)

   (a) 9, 5   (b) 13, 8   (c) 19, 17

   (d) 21, 13   (e) 42, 25   (f) 32, 19

   (g) 17, 11   (h) 36, 21   (i) 49, 41

1.

   (a) 2.50   (b) 8.49   (c) 15.59

   (d) 16.09   (e) 8.92   (f) 12.56

   (g) 2.33   (h) 33.53   (i) 27.43

2.

   (a) 12.20   (b) 16.15   (c) 27.92

   (d) 32.79   (e) 31.43   (f) 18.71

   (g) 37.36   (h) 43.00   (i) 39.49

3.

   (a) 33.7^o 56.3^o (b) 38.0^o, 52.0^o (c) 63.5^o, 26.5^o

   (d) 38.2^o, 51.8^o (e) 36.5^o, 53.5^o (f) 36.4^o, 53.6^o

   (g) 40.3^o, 49.7^o (h) 35.7^o, 54.3^o (i) 56.8^o, 33.2^o