Fun with Sums: My Bearings

An extension of "RSAF celebrates 50 years"

The RSAF plays a vital role in keeping Singapore safe. Read **"RSAF celebrates 50 years"** (page 9, *What's Up* April 2018) to see how the men and women of the RSAF work together to manage a sophisticated air defence system to protect our air space.

Instructions — Work in pairs to solve the following. You may use calculators. Give your answers correct to 2 decimal places.

1. From point A, an aircraft travelled 24 km to the west and then 7 km to the south to reach point B. Calculate the shortest distance between point A and point B. Also calculate the bearing of point A from point B.

2. Two radar stations X and Y are on an East-West line. An airborne aircraft is identified at a bearing of 15° from station Y and 285° from station X. The aircraft is 8 km from station X. Find the distance between the radar stations.

3. At point P, an airplane travelling at 700 km/hr has a bearing of 195°. After travelling for 1.5 hours in the same direction, how far south has the airplane travelled from point P?