

**GRADE 10 WORKSHEETS**

**01 APRIL 2020**

**36 MARKS**

**NOTE**: This worksheet is to be completed in your NS exercise/activity book.

Question 1

* 1. Define navigation. (3)
  2. List three (3) duties of a Navigator onboard ship. (3)
  3. Unpack the acronym/abbreviation ‘GPS’ (3)
  4. Name the primary pieces of information provide by a GPS set. (3)
  5. Explain the basic principle of operation of an echo sounder. (3)
  6. The speed of sound in water is 1500m/s. Time between transmission and reception of signal is 5 seconds.

Calculate the depth of water. (3)

* 1. Determining location of areas of dramatic temperature change is one of the functions of an echo sounder.

List three (3) more functions/uses of an echo sounder. (3)

* 1. Unpack the acronym/abbreviation ‘RADAR’ (3)
  2. Explain the basic principle of operation of radar. (3)
  3. Name two (2) primary functions of a radar system. (2)
  4. What typical information can one expect to see displayed on a ship’s log display screen (2)
  5. Name two (2) types of ship-borne compasses. (2)
  6. Identify the compass used to take the following bearing:

1. 322° (T) (1)
2. 270° (M) (1)
3. 045° (C) (1)