

**DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)**

**HOME SCHOOLING SELF-STUDY WORKSHEET**

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| **SUBJECT** | Maritime Economics | **GRADE** | 12 | **DATE** | 8/4/20 |
| **TOPIC** | Voyage calculations  | **TERM 1****REVISION** | X | **TERM 2 CONTENT** |  |
| **TIME ALLOCATION** | 20min | **TIPS TO KEEP HEALTHY**1. **WASH YOUR HANDS** thoroughly with soap and water for at least 20 seconds. Alternatively, use hand sanitizer with an alcohol content of at least 60%.2. **PRACTICE SOCIAL DISTANCING** – keep a distance of 1m away from other people.3. **PRACTISE GOOD RESPIRATORY HYGIENE**: cough or sneeze into your elbow or tissue and dispose of the tissue immediately after use.4. **TRY NOT TO TOUCH YOUR FACE.** The virus can be transferred from your hands to your nose, mouth and eyes. It can then enter your body and make you sick. 5. **STAY AT HOME.**  |
| **INSTRUCTIONS** | This worksheet is to be completed in your MRTE exercise/activity book. |

**Question 3a**

The bulk carrier Peng Yeng has been chartered for a shipment of iron ore from Saldanha Bay to Qingdao. The following are the facts about the ship and her voyage.

Time her charter began : 00:01 02 April 2020

Operational costs : $15000 per day (excluding fuel)

Time in Saldanha : 5 full days

Time in Qingdao : 8 full days

Port Costs : Saldanha $8000 per day

 : Qingdao $9500 per day

Fuel consumption :45 tons 350 CST (HVF) fuel per day

 :04 tons Marine Diesel Oil per day

Fuel Prices :350 CST $390 per ton

 Marine Diesel Oil $480 per ton

Tugs and Pilotage for the voyage : $15000

Sundry costs for the voyage : $550000

Distance Saldanha – Qingdao :7992 Nautical miles

 Service Speed :14.25 knots

NOTE: 350 CST is a cleaner type of fuel used on main engines, and only at sea. Marine Diesel Oil is used both at sea and in ports.

1.1 How many days will she be at sea? ROUND OFF TO NEXT DAY. (6)

1.2 How many days will she be on charter? (6)

1.3 What are the operating costs for the entire period on charter? (6)

1.4 What are the port costs for the period on charter? (6)