

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

**HOME SCHOOLING SELF-STUDY WORKSHEET**

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| **SUBJECT** | Maritime Economics | **GRADE** | 10 | **DATE** | 13/4/20 |
| **TOPIC** | Shipping Operation | **TERM 1****REVISION** |  | **TERM 2 CONTENT** | X |
| **TIME ALLOCATION** | 30min | **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 9**

Andalucía will be in Tubarao for 2 days, and her voyage to China will take 25 days. She will be in the Chinese port for 5 days. She anchored off Hong Kong (Chinese port) for 2 days. (**NB** she regard time at anchor as days at sea)

Operating costs (excluding fuel) = $55 000 per day

Fuel consumption:

HFO (at sea only) = 65 tons per day

MDO at sea and in port = 3 tons per day

Fuel costs HFO = $520 per ton

 MDO = $770 per ton.

Port costs Tubarao = $16 000 per day

 China = $2 500 per day

Other costs for the voyage = $320 000

9.1. What is the operating cost of the ship for the voyage (including time in port)? (6)

9.2. Calculate the port costs for this voyage? (6)

9.3. What is the total fuel bill for the voyage (including time in port)? (8)

9.4. What is the total cost of the voyage (including time in port)? (6)