

U.S.C.G. Merchant Marine Exam  
Master Unlimited Tonnage Rivers  
Q380 Deck General  
(Sample Examination)

**Choose the best answer to the following Multiple Choice Questions.**

**1.** Which statement about tunnel bow thrusters fitted to large vessels is TRUE?

- (A) Because of their location, most modern installations have as much power as a tug.
- (B) They are effective on most vessels at speeds up to 10 knots.
- (C) They are fully effective at all drafts.
- (D) When going astern at slow speed, they provide effective steering control.

*If choice D is selected set score to 1.*

**2.** You are loading propanolamine and spill a small quantity on deck. According to the Chemical Data Guide, you would expect its odor to be \_\_\_\_\_.

- (A) fishy
- (B) similar to turpentine
- (C) similar to ammonia
- (D) sweet

*If choice A is selected set score to 1.*

**3.** On tank vessels, fully charged fire extinguishers are considered semi-portable when they have a gross weight of more than \_\_\_\_\_.

- (A) 55 pounds
- (B) 75 pounds
- (C) 95 pounds
- (D) 125 pounds

*If choice A is selected set score to 1.*

**4.** If a cargo of kerosene were considered "too lean" to explode, then it must be \_\_\_\_\_.

- (A) above the "explosive range"
- (B) below the "explosive range"
- (C) within the "explosive range"
- (D) None of the above

*If choice B is selected set score to 1.*

5. You are Master of a vessel that is sold in a foreign country after discharge of cargo. What is your responsibility to the crew in regards to return to the United States?
- (A) You must provide passage to the port of original engagement.
  - (B) The crew can be employed on another United States vessel, but only if it is returning to the port of original engagement.
  - (C) There is no requirement for return to the United States provided the voyage has exceeded 4 weeks duration.
  - (D) You must provide air transportation to the nearest port of entry in the United States.

*If choice A is selected set score to 1.*

6. Instructions to the crew in the use of all the ship's fire-extinguishing and lifesaving equipment shall be completed within which time frame?
- (A) Within one month and repeated quarterly
  - (B) Before sailing
  - (C) Within one week of sailing
  - (D) Within any two month period

*If choice D is selected set score to 1.*

7. As a ship moves through the water, it drags with it a body of water called the wake. Which term defines the ratio of the wake speed to the ship's speed?
- (A) Speed of advance
  - (B) Wake distribution
  - (C) Propeller velocity
  - (D) Wake fraction

*If choice D is selected set score to 1.*

8. According to U.S. regulations, what vessels are required to have the "Discharge of Oil Prohibited" placard?
- (A) U.S. Vessels 26 feet or more in length
  - (B) U.S. vessels less than 26 feet in length
  - (C) Foreign vessels not in U.S. navigable waters
  - (D) Foreign vessels when engaged in noncommercial service

*If choice A is selected set score to 1.*

9. You are on a large vessel fitted with a right-handed controllable-pitch propeller set at maximum forward pitch. Which statement about reversing is TRUE?
- (A) When the pitch is reversed, the stern will slew to port even with headway.
  - (B) The vessel will respond to the rudder until sternway is developed, then the stern will slew to starboard.
  - (C) The vessel will have full rudder control throughout the speed change from ahead to astern.
  - (D) There will probably be a loss of steering control.

*If choice D is selected set score to 1.*

10. How is the minimum bursting pressure for each cargo hose assembly determined?

- (A) The sum of the relief valve setting plus the static head
- (B) Twice the sum of the relief valve setting plus the static head
- (C) Three times the sum of the relief valve setting plus the static head
- (D) Four times the sum of the relief valve setting plus the static head

*If choice D is selected set score to 1.*

11. Which knot in illustration D030DG below is secure only when there is a strain on the line?

- (A) H
- (B) I
- (C) L
- (D) P

*If choice C is selected set score to 1.*

12. The galley on your cargo vessel has an area of 2,500 square feet. Which of the following would fulfill the minimum requirements for fire protection?

- (A) One B-I extinguisher
- (B) One B-II extinguisher
- (C) One B-II and one C-II extinguisher
- (D) One B-V extinguisher

*If choice B is selected set score to 1.*

13. Which is an exception to the garbage discharge requirements in Annex V to MARPOL 73/78?

- (A) Garbage accumulation on board has exceeded storage space.
- (B) A person falls overboard, and a plastic ice chest is thrown for flotation.
- (C) The destination port or terminal cannot receive garbage.
- (D) The garbage to be discharged will sink.

*If choice B is selected set score to 1.*

**14.** A crew has signed on for a 3-month voyage. Fourteen days into the voyage a seaman is improperly discharged at the first port of call. How much pay is he entitled to receive?

- (A) double wages (28 days)
- (B) 14 days
- (C) 14 days and one month's extra
- (D) 1 month's

*If choice C is selected set score to 1.*

**15.** The effect known as "bank cushion" acts in which of the following ways on a single-screw vessel proceeding along a narrow channel?

- (A) It forces the bow away from the bank.
- (B) It forces the entire vessel away from the bank.
- (C) It forces the stern away from the bank.
- (D) It heels the vessel toward the bank.

*If choice A is selected set score to 1.*

**16.** What is the function of the "rudder adjustment" control on an autopilot steering stand?

- (A) To set the rate at which the rudder responds
- (B) To set the departure from base course before actuating the rudder
- (C) To set the number of degrees of rudder per degree of course error
- (D) To align the rudder angle indicator with the true rudder angle

*If choice C is selected set score to 1.*

**17.** You are docking a vessel in a slip which has its entrance athwart the tide. You land the ship across the end of the pier, stemming the tide, preparatory to breaking the ship around the corner. You have one tug to assist. Where would you generally tie up the tug?

- (A) Have her on a hawser from the stern.
- (B) Tie her up on the inshore bow to hold the ship off the end.
- (C) Tie her up on the offshore bow.
- (D) Tie her up on the inshore quarter to lift the stern.

*If choice C is selected set score to 1.*

**18.** What is NOT considered maritime property in a salvage claim?

- (A) Semi-submerged shipwreck
- (B) Cargo
- (C) Sea plane
- (D) Buoys

*If choice D is selected set score to 1.*

**19.** You are proceeding along the right bank of a narrow channel aboard a right-handed single-screw vessel. The vessel starts to sheer due to bank suction/cushion effect. Which action should you take?

- (A) Increase speed and put the rudder hard right
- (B) Stop engines and put the rudder hard left
- (C) Decrease speed and put the rudder hard right
- (D) Back full with rudder amidships

*If choice A is selected set score to 1.*

**20.** You are ordering ship's stores. Which statement is TRUE?

- (A) All stores of line, rags, linens and other similar type stores must be certified by UL as being fire retardant.
- (B) All distress flares when received must be stored in the portable magazine chest.
- (C) Up to five gallons of a flammable liquid may be stowed in the engine room.
- (D) Cylinders containing compressed gasses must be constructed and tested in accordance with the Bureau of Standards.

*If choice C is selected set score to 1.*

**21.** Your vessel is in Charleston, S.C. Which situation does NOT require you to clear Customs?

- (A) You did not load any cargo in Charleston and are bound for Halifax
- (B) All the cargo on board is of U.S. origin and destined for New York
- (C) You did not discharge any cargo in Charleston and are bound for Panama
- (D) You took on no new cargo in Charleston, S.C. and are bound for a foreign port

*If choice B is selected set score to 1.*

**22.** According to U.S. regulations, which of the following describes the declaration of inspection?

- (A) An application you must complete and submit to the Coast Guard to have an inspector visit your vessel
- (B) A paper issued by the Coast Guard marine inspector which allows you to conduct a transfer operation
- (C) An annual report submitted by vessel personnel to the Coast Guard declaring that all transfer equipment has been inspected
- (D) A document signed by vessel and shore facility persons-in-charge declaring that all transfer requirements have been met

*If choice D is selected set score to 1.*

**23.** Which extinguishing agent is effective in combating an isoprene fire?

- (A) Foam
- (B) CO<sub>2</sub>
- (C) All the above
- (D) Dry chemical

*If choice C is selected set score to 1.*

**24.** Which statement is TRUE when amendments are made to the Shipboard Oil Pollution Emergency Plan, and the revisions have been submitted to the Coast Guard?

- (A) Submit changes one month before the anniversary date of the plan
- (B) Submit only changes six months before the end of the approval period
- (C) The Plan cannot be implemented without approval
- (D) The Plan can be implemented without immediate approval as long as final approval is received within six months of submission

*If choice C is selected set score to 1.*

**25.** In accordance with U.S. regulations which of the following is the proper label name for a class 5.1 substance?

- (A) Infectious substance
- (B) Oxidizer
- (C) Poison gases
- (D) Corrosive

*If choice B is selected set score to 1.*

**26.** If the Master of a US-flag towing vessel replaces any crew member with a non-US citizen, he/she must ensure which of the following?

- (A) The replacement holds a credential equivalent in experience and training to a mariner holding US credentials
- (B) The vessel is on a foreign voyage, outside US jurisdiction, and not operating above the US outer continental shelf
- (C) The replacement can communicate with other crew members to the extent required by regulations
- (D) All of the above

*If choice D is selected set score to 1.*

**27.** The International Maritime Dangerous Goods Code assigns classes to dangerous goods. What is the proper nomenclature for class 9 substances?

- (A) Oxidizing substances and organic peroxides
- (B) Miscellaneous dangerous substances and articles
- (C) Toxic and infectious substances
- (D) Gases

*If choice B is selected set score to 1.*

**28.** Where can the deepest water when rounding a bend in a river be located?

- (A) Toward the inside of the bend
- (B) Toward the outside of the bend
- (C) In the center of the river
- (D) Toward the center of the river just before the bend, then change course for the river's center after the bend

*If choice B is selected set score to 1.*

**29.** In which case is the IOPP Certificate of an inspected vessel NOT invalidated?

- (A) The required oily-water separator malfunctions.
- (B) The ship is transferred to Liberian registry.
- (C) An annual survey is conducted fifteen months after the date of certificate issuance.
- (D) A 15 ppm oily-water separator is replaced by a 100 ppm oily-water separator.

*If choice A is selected set score to 1.*

**30.** When carrying a cargo of asphalt or molten sulfur, which are carried at temperatures of over 300°F, one of the biggest dangers is \_\_\_\_\_.

- (A) inadequate ullage space
- (B) water in the tanks or pipelines
- (C) having the cargo too cool
- (D) explosion of vapors after discharge

*If choice B is selected set score to 1.*

**31.** Which statement is FALSE concerning precautions during fueling operations?

- (A) A fire extinguisher should be kept nearby.
- (B) All windows, doors, hatches, etc. should be closed.
- (C) All engines, motors, fans, etc. should be shut down when fueling.
- (D) Fuel tanks should be topped off with no room for expansion.

*If choice D is selected set score to 1.*



**32.** What is the mechanical advantage, neglecting friction, of tackle number 12 as shown in illustration D029DG below?

- (A) 3.0
- (B) 5.5
- (C) 6.0
- (D) 7.0

*If choice D is selected set score to 1.*

**33.** Which item is a journal kept by the officer of the watch in which day to day happenings are recorded regarding the deck department?

- (A) The bell book
- (B) The Official Logbook
- (C) The deck log
- (D) A cargo record book

*If choice C is selected set score to 1.*

**34.** Which is a precaution you should take before bunkering?

- (A) Plug the scuppers
- (B) Close the lids on the vents
- (C) Plug the sounding pipes
- (D) Plug the vents

*If choice A is selected set score to 1.*

**35.** On an inspected vessel, when may a stability test be dispensed with?

- (A) projected cost is unreasonable
- (B) Coast Guard has the approved stability test results of a sister vessel
- (C) Coast Guard does not have a qualified inspector available
- (D) vessel is of a proven design

*If choice B is selected set score to 1.*

**36.** A clause in the charter party requires a vessel's owner to pay dispatch money when which of the conditions exists?

- (A) The vessel is not ready to load or discharge cargo
- (B) The vessel loads and discharges its cargo in less time than specified
- (C) The vessel changes berths to expedite loading or discharging
- (D) The vessel does not load and discharge its cargo in the time specified

*If choice B is selected set score to 1.*

**37.** Which is TRUE for a vessel's Certificate of Documentation?

- (A) It must be posted under transparent material in the pilothouse
- (B) It must be carried on board
- (C) It may be retained by the owner at the home port OR kept on the vessel
- (D) It must be kept on file at the corporate offices of the owner or operator

*If choice B is selected set score to 1.*

**38.** You are docking a vessel starboard side to with the assistance of two tugs. You are attempting to hold the vessel off by operating both tugs at right angles to the vessel and at full power. Which statement is TRUE?

- (A) Steerageway is never taken off
- (B) The bow doesn't close the dock first
- (C) The ship has no headway at the time
- (D) The bow closes the dock first

*If choice C is selected set score to 1.*

**39.** Which agency must approve the Safety equipment on board inspected vessels?

- (A) The U.S. Coast Guard
- (B) The Safety Standards Bureau
- (C) The National Safety Council
- (D) The Occupational Safety and Health Administration (OSHA)

*If choice A is selected set score to 1.*

**40.** What do the York-Antwerp Rules relate to?

- (A) The settlement of general average claims
- (B) The navigation regulations that apply in the English Channel
- (C) Clearly state the minimum required number of officers and crew
- (D) The ship owner's responsibilities to provide a well-found vessel in a charter party

*If choice A is selected set score to 1.*

**41.** How long shall the Oil Record Book be maintained on a vessel engaged in coastwise trade?

- (A) 12 months
- (B) 24 months
- (C) 36 months
- (D) 48 months

*If choice C is selected set score to 1.*

**42.** The lookout sights a vessel dead ahead. How would this be reported on the bell?

- (A) One strike on the bell
- (B) Two strikes on the bell
- (C) Three strikes on the bell
- (D) Four strikes on the bell

*If choice C is selected set score to 1.*

**43.** You have determined the maneuvering characteristics of your vessel by taking radar ranges and bearings of an isolated light while making a turn. The results are shown in illustration D035DG below. What is the transfer for a turn of 90°?

- (A) 400 yards
- (B) 430 yards
- (C) 485 yards
- (D) 525 yards

*If choice A is selected set score to 1.*

**44.** What causes a single-screw vessel going ahead to turn more rapidly to port?

- (A) Side force of the propeller
- (B) Discharge current of the propeller
- (C) Thrust
- (D) Suction current

*If choice A is selected set score to 1.*

**45.** Which action will take place if a crew member is replaced in a U.S. port after foreign articles have been signed, and the ship proceeds foreign?

- (A) The U.S. Consul will add the new man's name to the Certified Crew List.
- (B) The Master will remove the replaced man's name from the Certified Crew List but not from the articles.
- (C) The U.S. Consul will remove the replaced man's name from the Certified Crew List.
- (D) The name of the new man is added to the articles but not to the Certified Crew List.

*If choice D is selected set score to 1.*

**46.** Which space(s) is(are) deducted from gross tonnage to derive net tonnage?

- (A) Passenger spaces
- (B) Companions and booby hatches
- (C) Boatswain's stores
- (D) All of the above

*If choice C is selected set score to 1.*

**47.** A mariner whose credential has been revoked shall not be issued another credential without which of the following?

- (A) approval of the Officer-in-Charge, Marine Inspection
- (B) taking a new examination
- (C) approval of an administrative law judge
- (D) approval of the Commandant

*If choice D is selected set score to 1.*

**48.** When are Operators of Uninspected Passenger Vessels required to keep their Coast Guard credential aboard their vessel?

- (A) only when carrying passengers for hire
- (B) At all times
- (C) only when operating more than one mile from shore
- (D) only when operating at night

*If choice A is selected set score to 1.*

**49.** When backing down with sternway, where will the pivot point of a vessel be located?

- (A) The pivot point will be about one-quarter of the vessel's length from the stern
- (B) The pivot point will shift to the bow
- (C) The pivot point will be aft of the propellers
- (D) The pivot point will be about one-third of the vessel's length from the bow

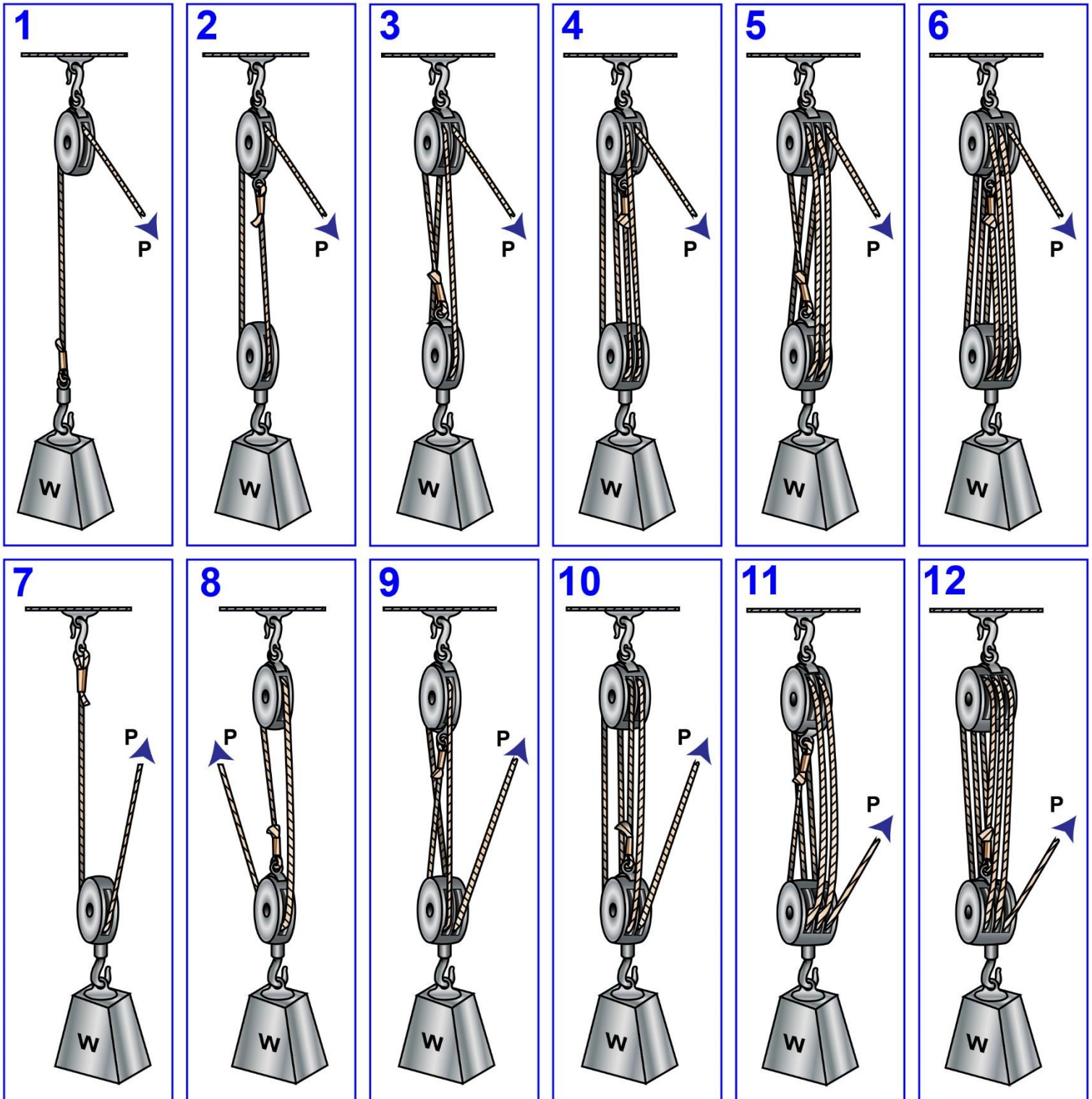
*If choice A is selected set score to 1.*

**50.** A twin-screw vessel is easier to maneuver than a single-screw vessel because the twin-screw vessel has which advantage?

- (A) The system permits the rudder to move faster
- (B) It can turn without using her rudder
- (C) It generates more power
- (D) It can suck the water away from the rudder

*If choice B is selected set score to 1.*

## D029DG

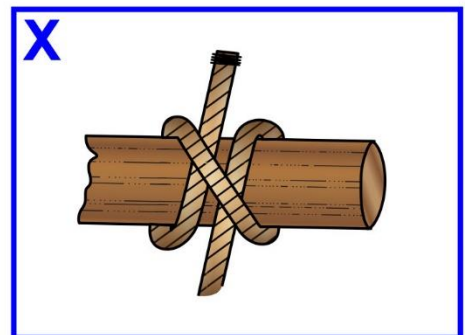
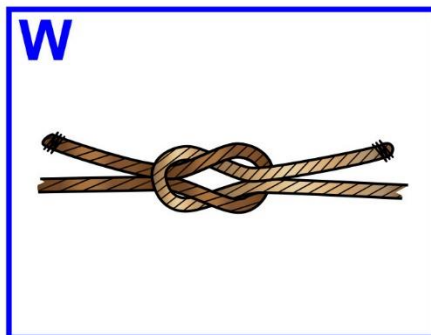
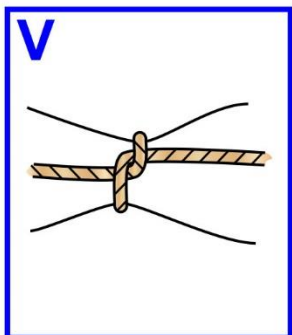
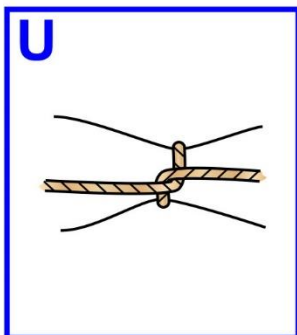
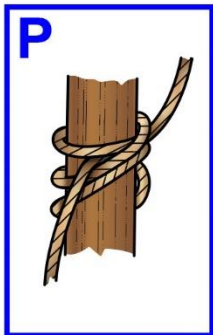
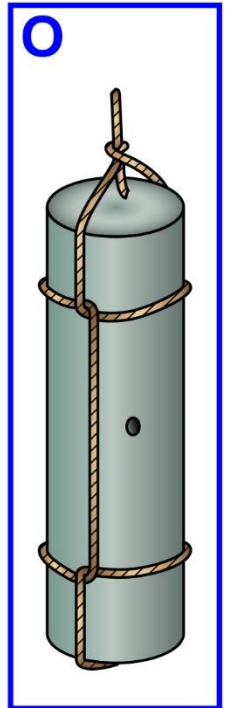
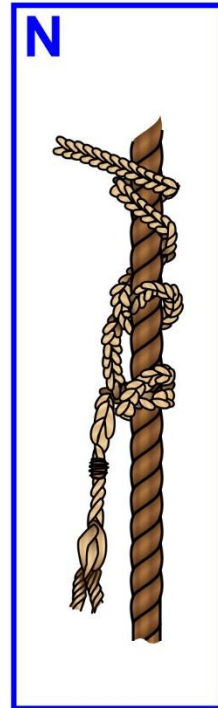
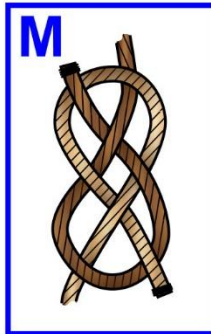
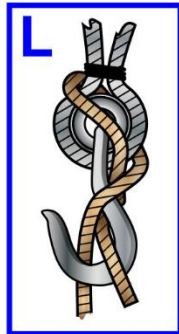
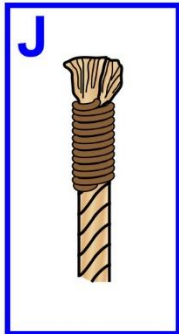
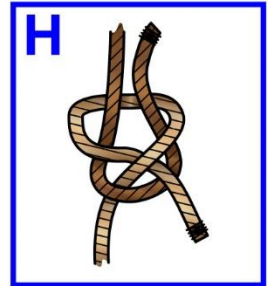
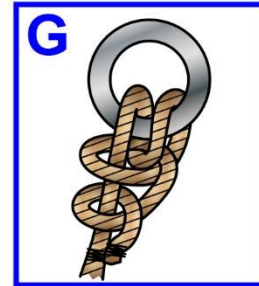
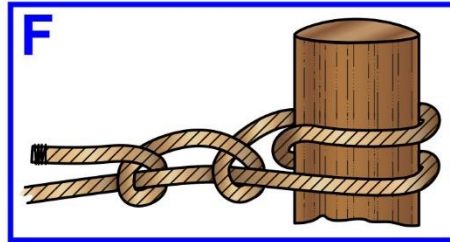
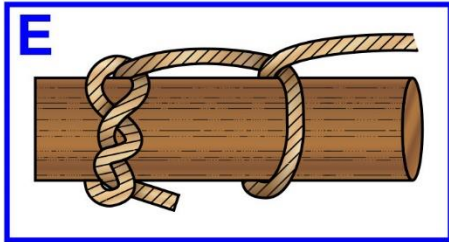


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## D030DG



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## D035DG

HEADING (TRUE)	BEARING (TRUE)	RANGE (YDS)	REMARKS
333°			INITIAL HEADING
333°	315°	2125	ON INITIAL COURSE
333°	310°	1650	LEFT FULL RUDDER ORDERED
327°	307°	1475	
310°	303°	1250	
278°	302°	1050	
268°	305°	900	
236°	318°	750	
196°	337°	800	
157°	344°	1100	
113°	340°	1350	
079°	332°	1525	
050°	324°	1575	
022°	318°	1550	
343°	308°	1400	RUDDER AMIDSHIPS
333°	302°	1175	STEADY ON 333°