

SMART EXAM RESOURCES  
SUBJECT: PHYSICS  
TOPIC: SFLOATING /SINKING  
SET-2-QP-MS

Fig. 2.1 shows a ship loaded with containers.

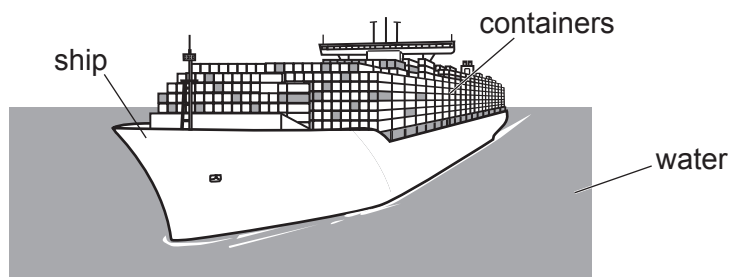


Fig. 2.1

- (a) The ship is made of steel.

The density of steel is  $7800 \text{ kg/m}^3$  and the density of water is  $1000 \text{ kg/m}^3$ .

Explain why the ship floats in the water.

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..... [2]

## MARK SCHEME:

ship is not solid steel / there are air spaces in ship	<b>B1</b>
(average) density of ship is less than the density of the water	<b>B1</b>