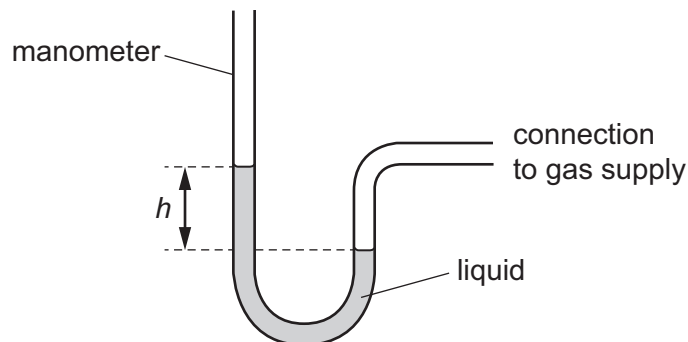


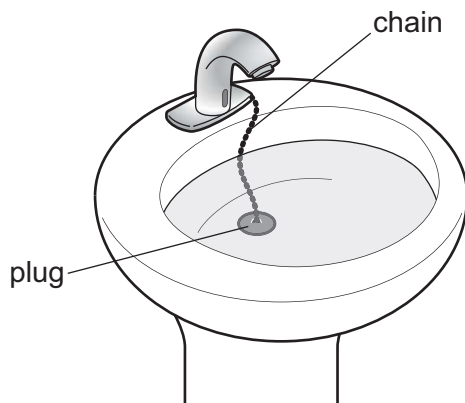
12 A manometer is used to measure the pressure of a gas supply.



Which change gives a greater value of height  $h$ ?

- A using a less dense liquid
  - B using a more dense liquid
  - C using a narrower tube
  - D using a wider tube
- 13 A washbasin has an exit pipe covered with a plug of area  $12\text{ cm}^2$ . A chain is attached to the centre of the plug to assist in pulling the plug away from the exit hole. The washbasin contains water to a depth of  $0.080\text{ m}$ .

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



What is the force acting on the plug due to the water?

- A 0.96 N
- B 800 N
- C 9600 N
- D 80000 N