

## 2.8 Gas Laws Homework Questions

1. What does the kinetic model of matter describe? (1)
2. Describe the kinetic model for gases. (2)
3. Cylinders of gas are being transported for use in factories making fizzy drinks.



Care has to be taken to ensure that the lorries carrying these cylinders are kept at a constant temperature. Explain why? (2)

4. Describe the changes to the pressure and volume of the air inside the air bladders of a fish, as they swim from deep water into more shallow water? (2)
5. What is the definition of Pressure? (1)
6. One *pascal* is equivalent to
  - A 1 N m
  - B 1 N m<sup>2</sup>
  - C 1 N m<sup>3</sup>
  - D 1 N m<sup>-2</sup>
  - E 1 N m<sup>-3</sup>(1)
7. The surface area of a bean bag on the floor is 5.5m<sup>2</sup>, its mass is 3kg. Calculate the pressure of the bean bag on the floor. (3)

**Total Marks Available = 12**