CHAPTER 3 : FORCE AND PRESSURE

3. Diagram 3 shows a hot air balloon.
Rajah 3 menunjukkan belon udara panas

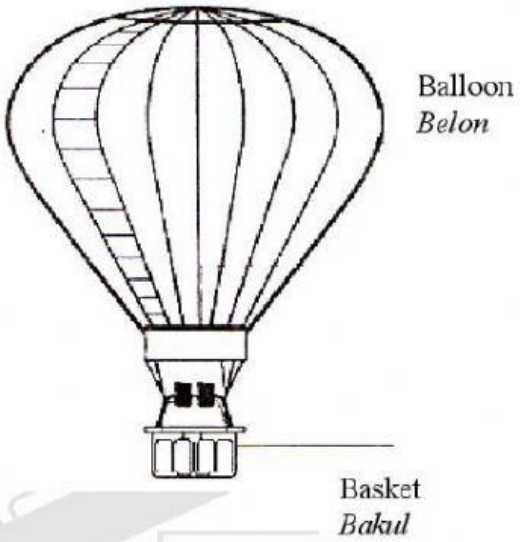

Diagram 3
Rajah 3

Table 3 shows four hot air balloon with different spesifications.
Jadual 3 menunjukkan empat belon udara panas dengan spesikasi yang berlainan

Hot air balloon ***Belon udara panas***	**Volume of the balloon (envelope)** ***Isipadu belon(karung)***	**Material used for the balloon** ***Bahan yang digunakan untuk belon***	**Material used for the basket** ***Bahan yang digunakan untuk bakul***	**Temperature of air inside the balloon** ***Suhu udara di dalam belon***
P	560 m^3	Nylon *Nilon*	Aluminium	50^0 C
Q	2800 m^3	Nylon *Nilon*	Rattan *Rotan*	100^0 C
R	4 m^3	Cotton *Kapas*	Aluminium	50^0 C
S	25 m^3	Cotton *Kapas*	Rattan *Rotan*	120^0 C

Table 3
Jadual 3

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You are required to determine the most suitable hot air balloon that can travel at higher altitude. Explain the suitability of each of the characteristic of the balloon. Choose the most suitable balloon and justify your choice.

Anda dikehendaki menentukan belon udara panas yang paling sesuai yang boleh terbang pada altitud lebih tinggi. Terangkan kesesuaian setiap ciri-ciri belon. Pilih belon paling sesuai dan berikan sebab untuk pilihan anda.

[10 marks /*markah*]

Characteristics *Ciri-ciri*	Explanation *Keterangan*

4. Diagram 4 shows a water supply system. Water from a water storage tank is pumped to water tank inside the house for daily use.
Rajah 4 menunjukkan sistem bekalan air. Air daripada tangki penyimpan air dipam ke tangki air di dalam rumah untuk kegunaan harian.

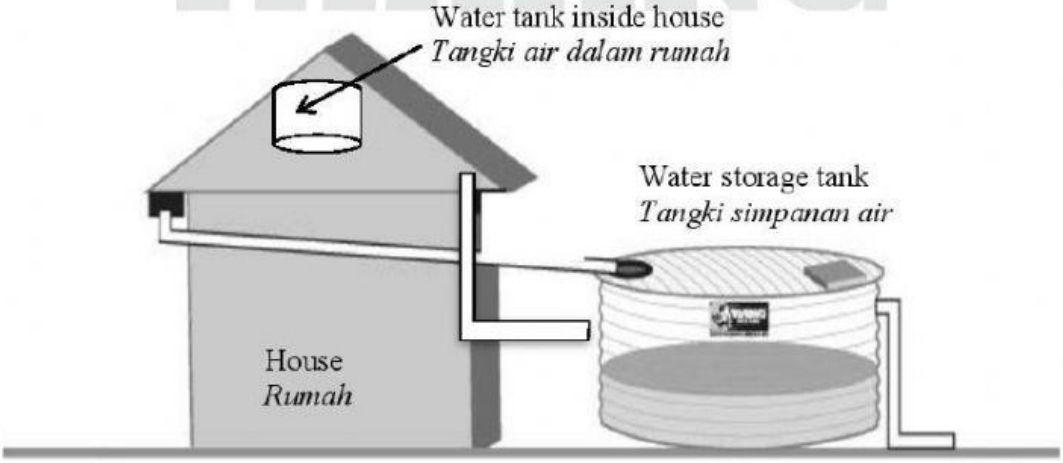

Diagram 4
Rajah 4

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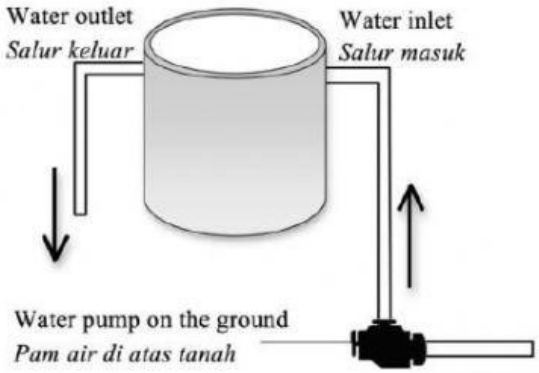
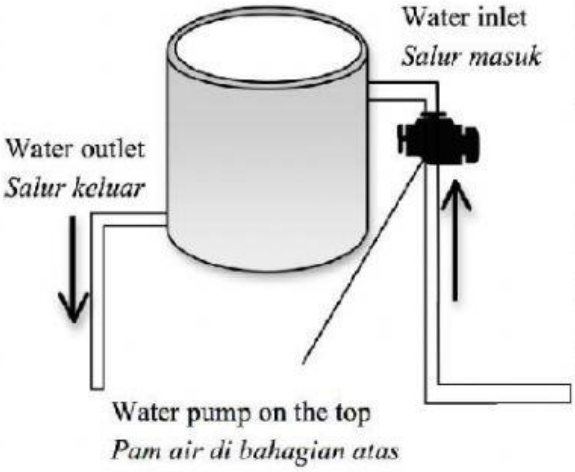
Table 4 shows the specifications of four water storage tanks *J*, *K*, *L* and *M*, that can be used to store water in a house tank.
Jadual 4 menunjukkan speksifikasi empat tangki penyimpan air J, K, L dan M, yang digunakan untuk menyimpan air dalam sebuah tangki di dalam rumah.

Water storage tank *Tangki penyimpan air*	**Pipe paterial** *Bahan paip*	**Height from the ground** *Tinggi daripada bumi*
J 	Metal *logam*	1.2 meter
K 	Metal Logam	4.5 meter

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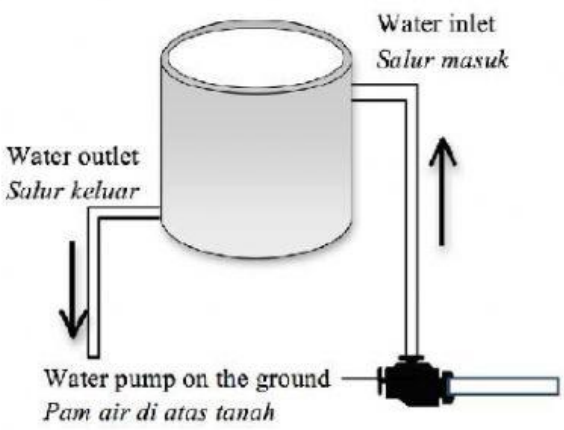
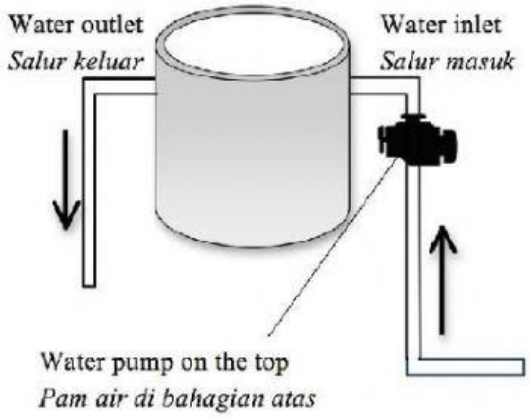
L 	Fibre glass *Gentian kaca*	4.5 meter
M 	Fibre glass Gentian kaca	1.2 meter

Diagram 4
Rajah 4

You are required to determine the most suitable water storage tank. Study the specifications of all four water storage tanks based on the following aspects:
Anda diminta untuk mengenal pasti tangki penyimpan air yang paling sesuai. Kaji spesifikasi keempat-empat tangki penyimpan air itu berdasarkan aspek:

- position of water outlet
  kedudukan salur keluar
- postion of water pump
  kedudukan pam air
- the type of pipe material
  bahan paip yang digunakan
- the height of the tank from the ground
  ketinggian tangki daripada bumi

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Explain the suitability of the aspects.
Terangkan kesesuaian aspek-aspek tersebut.

[10 marks /*markah*]

Characteristics *Ciri*	Explanation *Keterangan*

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