

九年级 浮力再练.

智慧基石 例1 A 练练 A 例2 B 练练 C.

例3 B 练练 D.

例4 (1) 溢水杯中加水先溢出,待水面与溢水口相平即可.

(2) 先不变后变小

$$(3) F_2 - F_3 = F_4 - F_1$$

练练 (1) B.

(2) 2.

(3) 等于

(4) 溢水杯中水未到达溢水口.

(5) 3; 深.

(6) 排开液体的重力大小

$$(7) \rho_{\text{液}} = \frac{h_1}{h_2} \rho_{\text{水}}.$$

$$\text{例5 (1)} F_{\text{浮}} = G = mg = 6.5 \times 10^3 \text{ kg} \times 10 \text{ N/kg} = 6.5 \times 10^8 \text{ N}.$$

$$(2) V_{\text{排}} = \frac{F_{\text{浮}}}{\rho_{\text{水}} g} = \frac{6.5 \times 10^8 \text{ N}}{1 \times 10^3 \text{ kg/m}^3 \times 10 \text{ N/kg}} = 6.5 \times 10^4 \text{ m}^3.$$

$$\text{练练: } V = \frac{m}{\rho} = \frac{2.34 \text{ kg}}{7.8 \times 10^3 \text{ kg/m}^3} = 3 \times 10^{-4} \text{ m}^3, F_{\text{浮}} = \rho_{\text{水}} g V = 1 \times 10^3 \text{ kg/m}^3 \times 9.8 \text{ N/kg} \times 3 \times 10^{-4} \text{ m}^3 = 2.94 \text{ N}$$

例6 (2) 0.4 (4) 2.2 (5) 5; 大; 20.

练练: (1) 6 N (2) $0.6 \times 10^3 \text{ kg/m}^3$ (3) $5.1 \times 10^{-5} \text{ m}^3$.

例7. C.

练练: (1) 因为冰的密度小于海水密度 (2) 1:10.

例8. C.

练练. D.

智慧高锋: A.

智慧磨炼: 1. C 2. B 3. B

4. B 5. C