

2. Bez

Dichte/Geschwindigkeit

Lösungen AB 3

$$1. \quad m = \rho \cdot V = \underline{\underline{500g}}$$

$$2. \quad t = \frac{s}{v} = 0,20375h = 12,225min = \underline{\underline{12 \text{ min } 13,5s}}$$

$$3. \quad m = \rho \cdot V = \underline{\underline{471,6g}}$$

$$4. \quad V = \frac{m}{\rho} = \underline{\underline{5dm^3}}$$

$$5. \quad t = \frac{s}{v} = 2,08\bar{3}h = \underline{\underline{2h \ 5min}}$$

$$6. \quad v = \frac{s}{t} = \frac{16,3}{0,25} = \underline{\underline{65,2km/h}}$$

$$7. \quad v = \frac{s}{t} = \underline{\underline{1,7m/s}} = \underline{\underline{6km/h}}$$

$$8. \quad v = \frac{s}{t} = \underline{\underline{10,1m/s}} = \underline{\underline{36,5km/h}}$$

$$9. \quad m = \rho \cdot V = \underline{\underline{300g}}$$

$$10. \quad t = \frac{s}{v} = \underline{\underline{14,7s}}$$

$$11. \quad t_1 = \frac{s}{v_1} = 2,857142h = \underline{\underline{2h \ 51min}}$$

$$t_2 = \frac{s}{v_2} = 1,538461h = \underline{\underline{1h \ 32min}}$$

$$12. \quad V = \frac{m}{\rho} = \underline{\underline{44cm^3}}$$

$$13. \quad v = \frac{s}{t} = \underline{\underline{6,7m/s}} = \underline{\underline{24km/h}}$$

$$14. \quad v = \frac{s}{t} = \underline{\underline{7,8m/s}} = \underline{\underline{28km/h}}$$

$$15. \quad s = v \cdot t = \underline{\underline{7,5km}}$$

$$16. \quad m = \rho \cdot V = \underline{\underline{1050kg}}$$

$$17. \quad v = \frac{s}{t} = \underline{\underline{720km/h}}$$

$$18. \quad v_1 = \frac{s}{t_1} = \frac{100 \cdot 60}{70} = \underline{\underline{85,7km/h}}$$

$$v_2 = \frac{s}{t_2} = \frac{100 \cdot 60}{130} = \underline{\underline{46,2km/h}}$$

$$19. \quad m = \rho \cdot V = \underline{\underline{105kg}} \rightarrow \text{nein}$$

$$20. \quad s = v \cdot t = \underline{\underline{1458m}}$$