

Question 7

7(d)(i)	lead(II) nitrate	1
7(d)(ii)	$\text{Pb}^{2+}(\text{aq}) + \text{SO}_4^{2-}(\text{aq}) \rightarrow \text{PbSO}_4(\text{s})$ M1 PbSO_4 on the right(1) M2 only Pb^{2+} and SO_4^{2-} on the left(1) M3 $(\text{aq}) + (\text{aq}) \rightarrow (\text{s})(1)$	3
7(d)(iii)	M1 filter(1) M2 wash (the residue or lead sulfate) with distilled or deionised water(1) M3 description of drying(1)	3

Question 8

8(b)	fractional distillation	2
------	-------------------------	---

Question 9

9(b)(i)	no bubbles or no fizzing or no effervescence	1
9(b)(ii)	zinc / zinc oxide / zinc hydroxide	1
9(b)(iii)	(powder has) larger surface area OR lumps have smaller surface area (1) (powder has) more collisions per unit time / more collision frequency OR lumps have fewer collisions per unit time / less collision frequency (1)	2
9(b)(iv)	crystals (form on glass rod or microscope slide)	1
9(b)(v)	ZnSO_4	1