

	A	B	C	D	E	F
Name	Substance #1	Starting material	Mass of starting material (g)	Theoretical yield (g)	Mass of the product obtained	Percent yield (%)
Abdallah Ahmed Abdelgawwad Mohamed Soliman	$\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$	12.53		18.75	
<i>Abdullah Ahmed Muneer Ahmed</i>	$\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$	14.86		16.23	
<i>Aliyeva Zenfira</i>	$\text{ZnCO}_3 \cdot \text{Zn}(\text{OH})_2$	$\text{Zn}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}$	9.47		2.99	
Arif Arifuzzaman	$\text{CrK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{K}_2\text{Cr}_2\text{O}_7$	7.18		17.33	
<i>Ba_Amer Ahmed Abdullah Ahmed</i>	$\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$	13.02		21.11	
<i>Bader Jamil Ibrahim Jamil</i>	$\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$	15.77		21.80	
Bayandy Dinmukhamet	$\text{ZnCO}_3 \cdot \text{Zn}(\text{OH})_2$	$\text{Zn}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}$	10.68		4.96	
<i>Bintamam Mohammed Osamah Mohammed</i>	$\text{CrK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{K}_2\text{Cr}_2\text{O}_7$	7.26		23.64	
Boldtumur Bayar	$\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$	13.42		22.83	
Dzay Hawal Hayder Ismael	$\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$	15.63		20.19	
Elhalaby Habib Richard Salim	$\text{ZnCO}_3 \cdot \text{Zn}(\text{OH})_2$	$\text{Zn}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}$	10.24		5.10	
Gabit Zhanerke	$\text{CrK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{K}_2\text{Cr}_2\text{O}_7$	6.97		21.99	
<i>Harsi Hamzah Khaled Ahmed</i>	$\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$	12.25		20.33	
Hussain Ijaz	$\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$	16.11		21.17	
Ismayilov Eljan	$\text{ZnCO}_3 \cdot \text{Zn}(\text{OH})_2$	$\text{Zn}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}$	10.93		4.73	
<i>Issatayeva Ingkar</i>	$\text{CrK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{K}_2\text{Cr}_2\text{O}_7$	7.31		22.55	
<i>Kaga Deborah Donald</i>	$\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$	13.25		20.14	
<i>Kaziyeva Aisha</i>	$\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{Al}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$	16.29		19.43	
Kashkhuu Oyundari	$\text{ZnCO}_3 \cdot \text{Zn}(\text{OH})_2$	$\text{Zn}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}$	10.11		3.98	
<i>Lapochkina Luliia Andreevna</i>	$\text{CrK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{K}_2\text{Cr}_2\text{O}_7$	7.01		20.77	
<i>Lkhagvasuren Batbold</i>	$\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	$\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$	11.99		18.36	

<i>Makhsatova Saya</i>	$KAl(SO_4)_2 \cdot 12H_2O$	$Al_2(SO_4)_3 \cdot 18H_2O$	15.64		20.72	
Nhean Panha Vattey	$ZnCO_3 \cdot Zn(OH)_2$	$Zn(CH_3COO)_2 \cdot 2H_2O$	10.92		4.39	
Nunez De La Rosa Ana Karen	$CrK(SO_4)_2 \cdot 12H_2O$	$K_2Cr_2O_7$	7.38		23.16	
Pham Tran Nguyet Ha	$Fe(NH_4)_2(SO_4)_2 \cdot 12H_2O$	$FeSO_4 \cdot 7H_2O$	13.47		22.84	
<i>Phanka Douangphathida</i>	$KAl(SO_4)_2 \cdot 12H_2O$	$Al_2(SO_4)_3 \cdot 18H_2O$	15.95		18.61	
Shahid Habib	$ZnCO_3 \cdot Zn(OH)_2$	$Zn(CH_3COO)_2 \cdot 2H_2O$	10.28		3.69	
<i>Shams Hafiz Furqan</i>	$CrK(SO_4)_2 \cdot 12H_2O$	$K_2Cr_2O_7$	7.05		20.44	
<i>Stanynets Vladyslav</i>	$Fe(NH_4)_2(SO_4)_2 \cdot 12H_2O$	$FeSO_4 \cdot 7H_2O$	12.61		20.37	
Tleugabyl Madina	$KAl(SO_4)_2 \cdot 12H_2O$	$Al_2(SO_4)_3 \cdot 18H_2O$	16.46		20.23	
Tran Dang Khoa	$ZnCO_3 \cdot Zn(OH)_2$	$Zn(CH_3COO)_2 \cdot 2H_2O$	10.37		3.88	
Tyulegenov Bekzat	$CrK(SO_4)_2 \cdot 12H_2O$	$K_2Cr_2O_7$	7.10		22.51	

### Relating calculation problem:

For preparing your Substance#1 (A) in the laboratory, you measure out ..... g (C) Starting material (B). Based on the corresponding chemical equation calculate the theoretical yield (D) of Substance #1. Calculate the percent yield (F) assuming that the mass of your product obtained is ..... g (E).