

1. Read the question and the student's answer carefully.
2. Use the mark scheme to award the student a number of marks and annotate their answer with suggestions to improve.

Stretch: Rewrite the answer to show how it should be done!

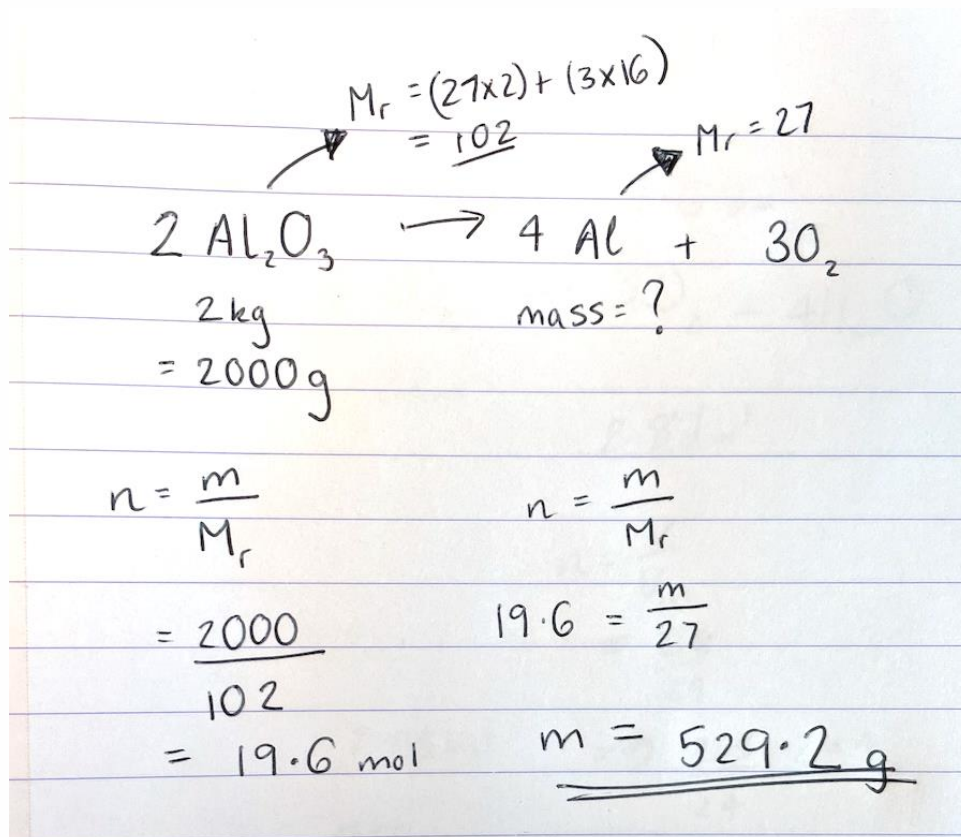
Question:

Aluminium can be separated from its ore by electrolysis. The equation for the reaction is:



Calculate the mass of aluminium that could be obtained from 2 kg of aluminium oxide. **(6)**

Student answer:



Marks awarded= _____

Mark scheme:

Point	Mark
Mr $\text{Al}_2\text{O}_3 = 102$	1 (answer, can also be shown in working of next point)
Number of moles $\text{Al}_2\text{O}_3 = m/\text{Mr}$ $2000/102$	1 (substitution)
Number of moles $\text{Al}_2\text{O}_3 = 19.6.078...\text{mol}$	1 (answer)
Mole ratio = 2:4 Number of moles Al = 39.2156...	1 (number of moles Al)
Mass Al = $n \times \text{Mr}$ $= 39.2156 \times 27$	1 (substitution)
1 058.82 g	1 (answer)