Vehicle weights

This task is about solving mathematical problems involving weight.



A car-transporter is allowed to carry no more than 8 vehicles, up to a maximum total weight of 8 tonnes. A small car weighs 800 kg and a station-wagon weighs 1200 kg. (1 tonne = 1000 kg)

a) Which **three** of these loads would **not** be allowed? *Select three options.*

0	4 station-wagons and 3 small cars	0	7 station-wagons	9 small cars
0	3 station-wagons and 5 small cars	0	5 station-wagons and 3 small cars	

Here is an equation to describe the load of the transporter: $(800 \times m) + (1200 \times n) = p$

i)	What does the <i>m</i> stand for?	
ii)	What does the <i>p</i> stand for?	

c) If 2 station-wagons are put on the transporter, what is the largest number of *small cars* that can be loaded?

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Show how you worked out your answer in the space below: