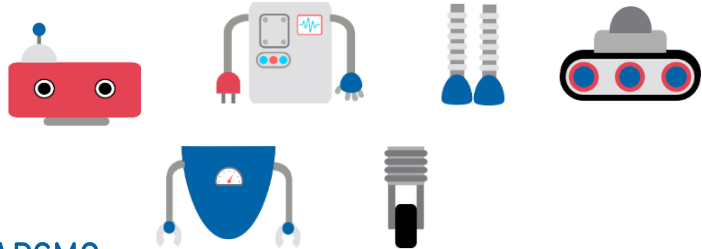
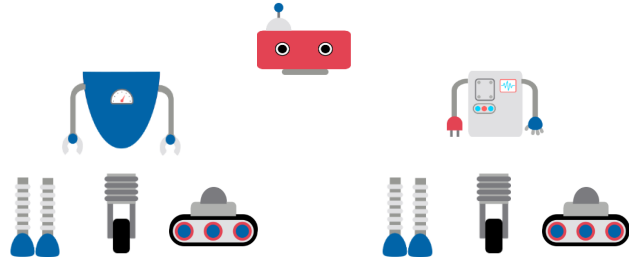


How many different robots can I make with these parts?



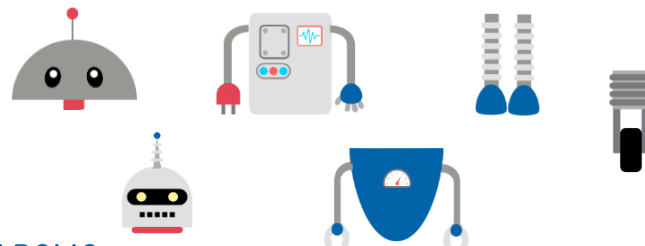
APSMO A not-for-profit organisation Pilot Project / Draft 1

6 robots



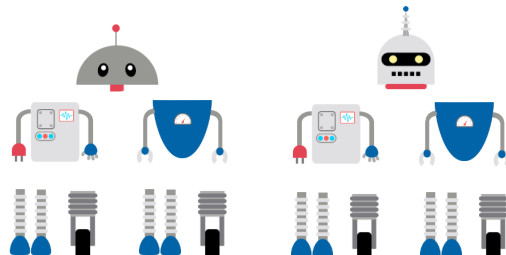
APSMO A not-for-profit organisation Pilot Project / Draft 1

How many different robots can I make with these parts?



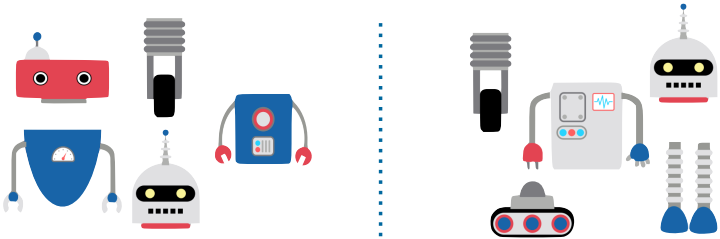
APSMO A not-for-profit organisation Pilot Project / Draft 2

8 robots

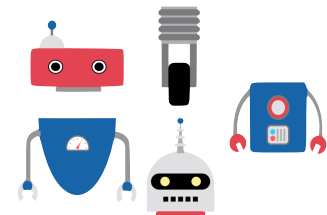


APSMO A not-for-profit organisation Pilot Project / Draft 2

Which set of parts will let me make the most robots?

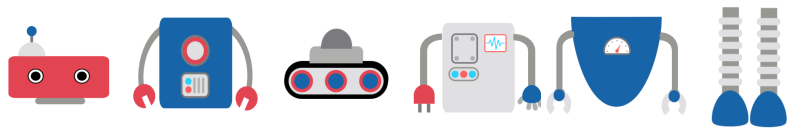


APSMO A not-for-profit organisation Pilot Project / Draft 3

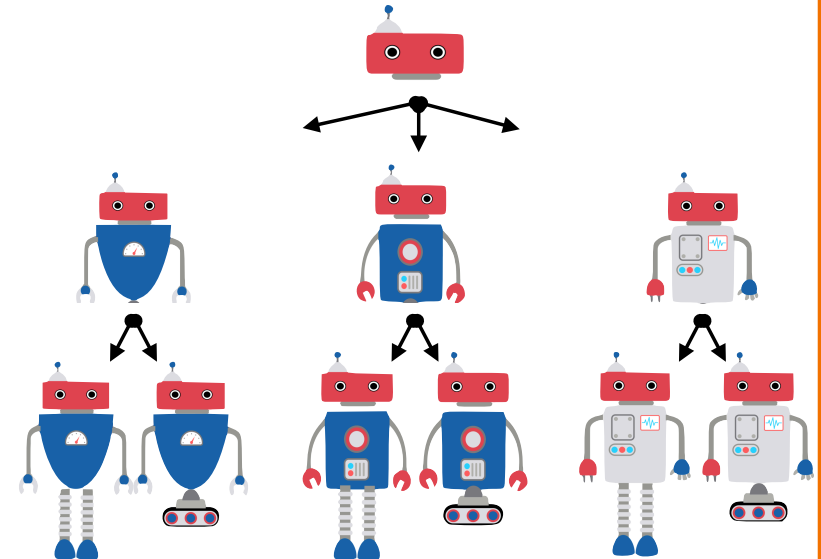
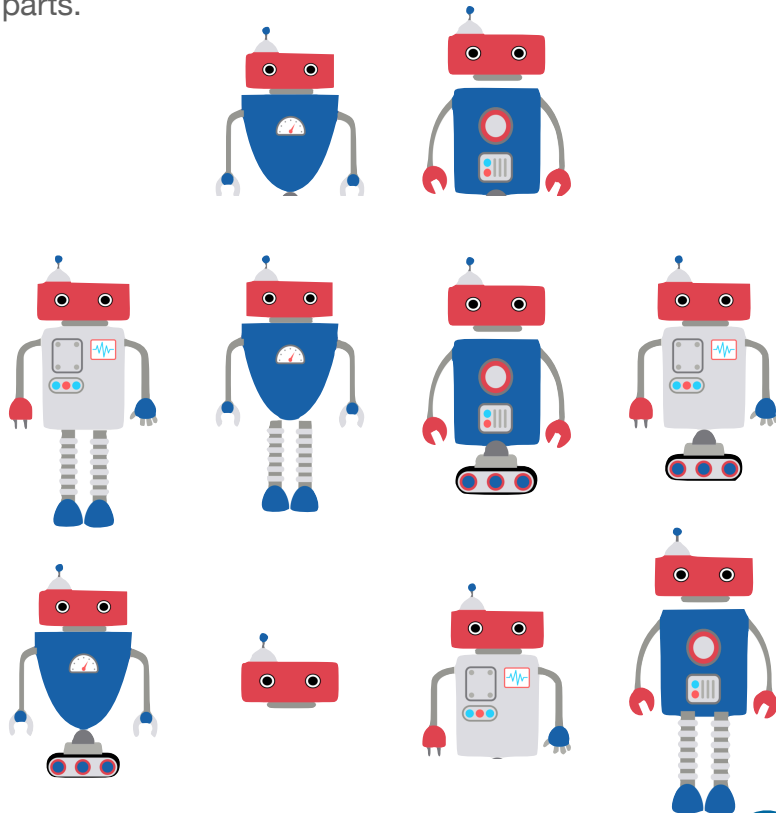


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I was given these robot parts:



Cut out these robot pieces and organise them to show I have found all 6 ways of making robots with these parts.



2

Pilot Project / Draft

Use the information shown on this diagram to fill the boxes in with the missing pieces.

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2

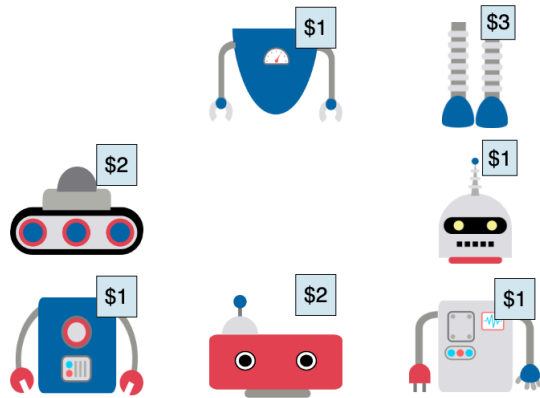
Pilot Project / Draft

Use the information shown on this diagram to fill the boxes in with the missing pieces.

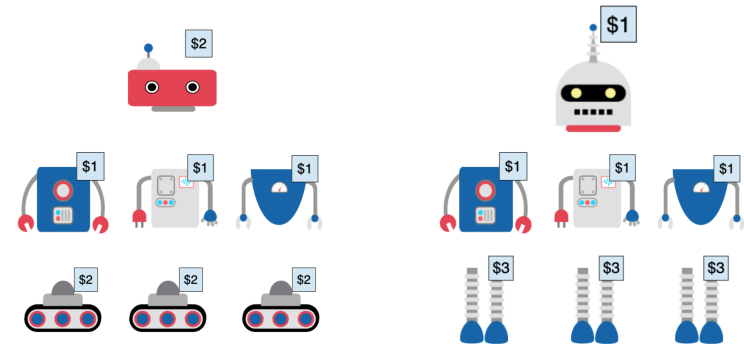
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How many \$5 robots can I build with these parts?

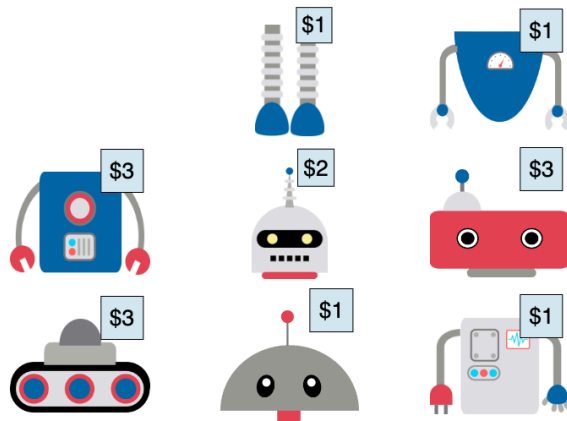
Spare Parts



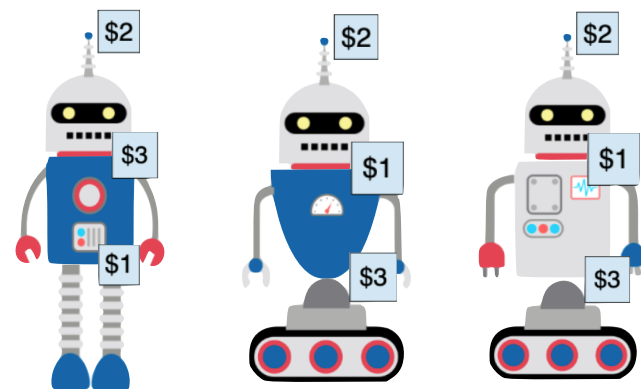
6 robots



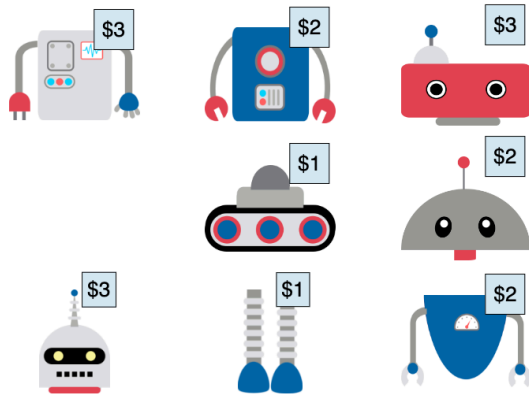
How many \$6 robots can I build with these parts?



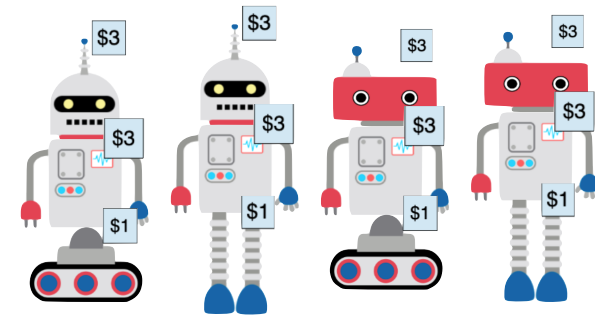
3 robots



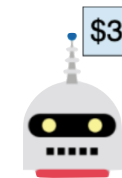
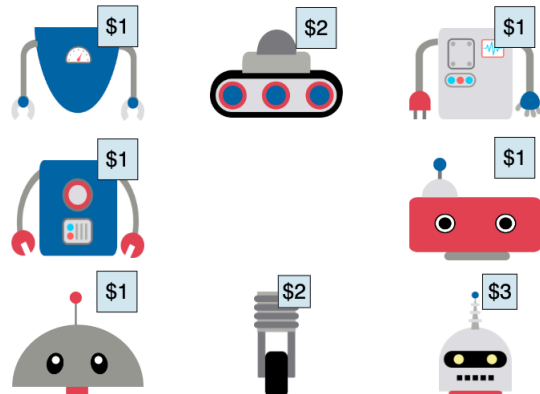
I can afford \$6 robots. How many combinations can you make that are too expensive for me?



4 robots



I want to build \$4 robots. Which part can't I use? Explain why it is impossible to use it.



Combining with even the cheapest middle and bottom parts would cost \$2, making the total robot cost \$5.