

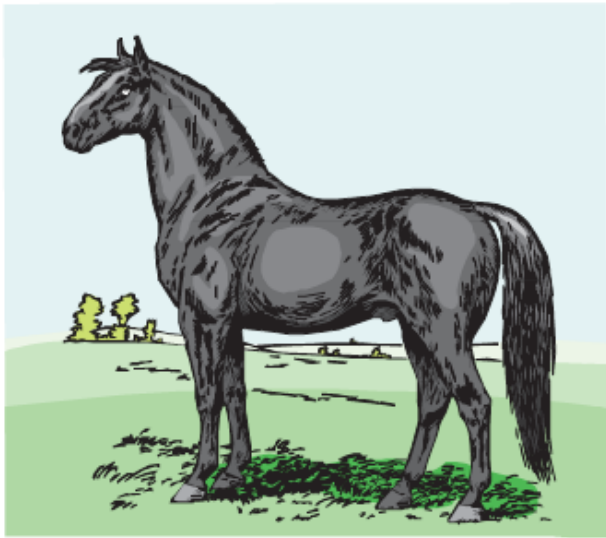
## *Study Skills - Problem Solving*

*LP: To apply critical thinking skills to solve a problem*

*On the next slide there will be a problem or puzzle of some kind, work to try and find a solution.*

*They are all possible so don't give up!*

## Harry the Horse

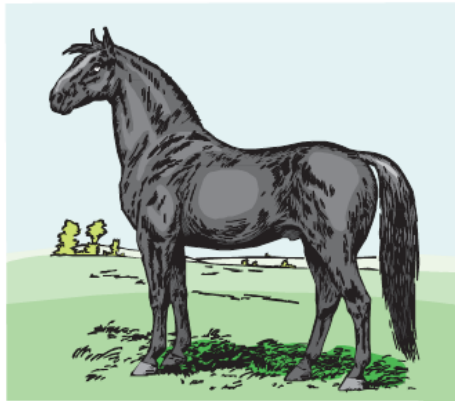


A family of four:  
Mum, Dad, Billy and Sissy  
sit one behind the other  
on their huge horse Harry.  
How many different ways  
can they be seated?

*Hint: If you're stuck, start with two  
people, then three, then four.*

Extension: *What if they had another child, Carrie?*

Solution:



*There are 24 ways*

Explanation:

*Here they are:*

<i>DMBS</i>	<i>MDBS</i>	<i>BMDS</i>	<i>SDMB</i>
<i>DMSB</i>	<i>MDSB</i>	<i>BMSD</i>	<i>SDBM</i>
<i>DSMB</i>	<i>MSDB</i>	<i>BDSM</i>	<i>SMDB</i>
<i>DSBM</i>	<i>MSBD</i>	<i>BDMS</i>	<i>SMBD</i>
<i>DBSM</i>	<i>MBSD</i>	<i>BSMD</i>	<i>SBDM</i>
<i>DBMS</i>	<i>MBDS</i>	<i>BSDM</i>	<i>SBMD</i>

