

**Supplementary Materials.** Description of Arithmetic Word Problems (AWP): problem statement, Arithmetic operations for solving, number of operations, Inconsistences and possible superficial responses.

#	Problem	Arithmetic	# Ops	Inconsistences	Superficial Responses
1	In Mercadona, a bottle of Rioja wine costs 20 Euros. In Ahorramás, the same bottle of wine costs 2 Euros less than in Mercadona. If you need to buy 4 bottles of this Rioja wine, how much will you have to pay in Ahorramás?	$(20 - 2) \times 4 = 72$	2	No	--
2	In SportGood, NK brand sneakers cost 50 Euros. This is 3 Euros more than what you have to pay for the same shoes at Primark. If you need to buy 4 pairs of NK sneakers, how much will you have to pay at Primark?	$(50 - 3) \times 4 = 188$	2	Yes	$(50 + 3) \times 4 = 212$
3	In Media-Markt, a Samsung digital tablet costs 70 Euros and a mini SG tablet costs 6 Euros less. In Mundo-Electrónico, the same digital tablet costs 4 Euros less than in Media-Markt. If in an educational institute they need to buy 5 mini SG tablets, how much will they have to pay at Mundo-Electrónico?	$(70 - 6 - 4) \times 5 = 300$	3	No – No	--
4	In Fnac, a box of coloured pencils costs 18 Euros. This is 2 Euros more than what you have to pay for a box of coloured pencils at the Folder bookstore. A box of crayons costs 4 Euros less than a box of coloured pencils in the Folder bookshop. If you need to buy 3 boxes of crayons, how much will you have to pay at the Folder bookstore?	$(18 - 2 - 4) \times 3 = 36$	3	Yes – No	$(18 + 2 - 4) \times 3 = 48$
5	In Toys-r-Us, a plastic skateboard costs 30 Euros. This is 5 Euros more than what you have to pay for a plastic skateboard at Decathlon. In Decathlon, a plastic skateboard costs 7 Euros less than a carbon fibre skateboard. If you need to buy 2 carbon fibre skateboards, how much will you have to pay in Decathlon?	$(30 - 5 + 7) \times 2 = 64$	3	Yes – Yes	Sup1: $(30 + 5 + 7) \times 2 = 84$ Sup2: $(30 - 5 - 7) \times 2 = 54$ Sup3: $(30 + 5 - 7) \times 2 = 56$