

POD

Mr. Hill has tarantulas & honey bees as pets. He has 34 pets in all. They have 220 legs all together. How many cute, fuzzy, & cuddly tarantulas does Mr Hill have?

**Question** - How many tarantulas does Mr Hill have?

**Facts** -- 34 animals in all.  
 220 legs in all  
 bees have 6 legs  
 tarantulas have 8 legs

**Solution** - Try, check, revise using a table to stay organized

	# of Tarantulas	# of Bees	# of bugs = 34	# of Tarantula legs (8 each)	# of bee legs (6 each)	# of legs in all = 220 ?
TCR 1	20	14	= 34	$20 \times 8 = 160$	$14 \times 6 = 84$	244 which is 24 legs too many. Divide 24 legs by 2 legs (difference b/w bees & Tarantulas) = 12 animals that need to be switched. Since we need FEWER legs switch tarantulas for bees.
TCR 2	$20 - 12 = 8$	$14 + 12 = 26$	34	$8 \times 8 = 64$	$26 \times 6 = 156$	220 😊

Answer - Mr Hill has 8 cute, fuzzy, cuddly tarantulas