Design Recipe

A rocket leaves Earth, headed for Mars at 80 miles per second. **At the exact same time**, an asteroid leaves Mars traveling towards Earth, moving at 70 miles per second. If the distance from the Earth to Mars is 50,000,000 miles, how long will it take for them to meet?

I. Contract+Purpose Statement Every contract has three parts:					
: collide	:	Num	ber	-	> Number
name		Dom	ain		Range
; Given the distance b	oetween a rock		80mi/sec) & asteroid at does the function do?	(70mi/sec), w	hen will they collide?
II. Give Examp	lesGive Exan	nples			
Write an example of			sample inputs		
collide(0) = 0	/150				
Use the function here		What should	I the function produce?		
collide(150) =	150/150				
Use the function here		What should	I the function produce?		
collide(700) =	700/150				
Use the function here		What should	I the function produce?		
collide(50,000,	000) = 5	0,000,00	0/150		
Use the function here			I the function produce?		
III. Definition					
	giving variab	le names to	all your input values	S.	
collide(distance	-between) = (distance-betwe	en/150	