

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?

Every contract has three parts:

;	collide	:	Number	->	Number
	name		Domain		Range

; Given the distance between a rocket (moving at 80mi/sec) & asteroid (70mi/sec), when will they collide?
What does the function do?

Write an example of your function for some sample inputs

collide(0) = 0/150

Use the function here	What should the function produce?
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collide(150) = 150/150

Use the function here	What should the function produce?
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collide(700) = 700/150

Use the function here	What should the function produce?
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collide(50,000,000) = 50,000,000/150

Use the function here	What should the function produce?
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Write the Formula, giving variable names to all your input values.

collide(distance-between) = distance-between/150