

Fast Functions!

Code.org Computer Science in Algebra



I love solid green triangles! I want a function that is going make green triangles of every size possible.

green-triangle	Number	->	Image
<i>name</i>	<i>domain (size)</i>		<i>(Green Triangle) range</i>
Example: green-triangle	(15)	=	triangle (15, "solid", "green")
Example: green-triangle	(100)	=	triangle (100, "solid", "green")
Define: green-triangle	(size)	=	triangle (size, "solid", "green")

My friend loves solid blue stars! She has stars of every size all over her room. Write a function.

blue-star	number	->	image
<i>name</i>	<i>domain</i>		<i>range</i>
Example: blue-star	(15)	=	star (15, "solid", "blue")
Example: blue-star	(7004)	=	star (7004, "solid", "blue")
Define: blue-star	(size)	=	star (size, "solid", "blue")

Write a function that creates circles of radius 10 that can be any color you choose.

Circle-10	string	->	image
<i>name</i>	<i>domain</i>		<i>range</i>
Example: Circle-10	("pink")	=	Circle (10, "solid", "pink")
Example: Circle-10	("salmon")	=	circle (10, "solid", "salmon")
Define: Circle-10	(color)	=	circle (10, "solid", color)

Write a function that takes a number and doubles it.

double	number	->	number
<i>name</i>	<i>domain</i>		<i>range</i>
Example: double	(8)	=	8 * (2, 8)
Example: double	(34.5)	=	* (2, 34.5)
Define: double	(number)	=	* (2, number)