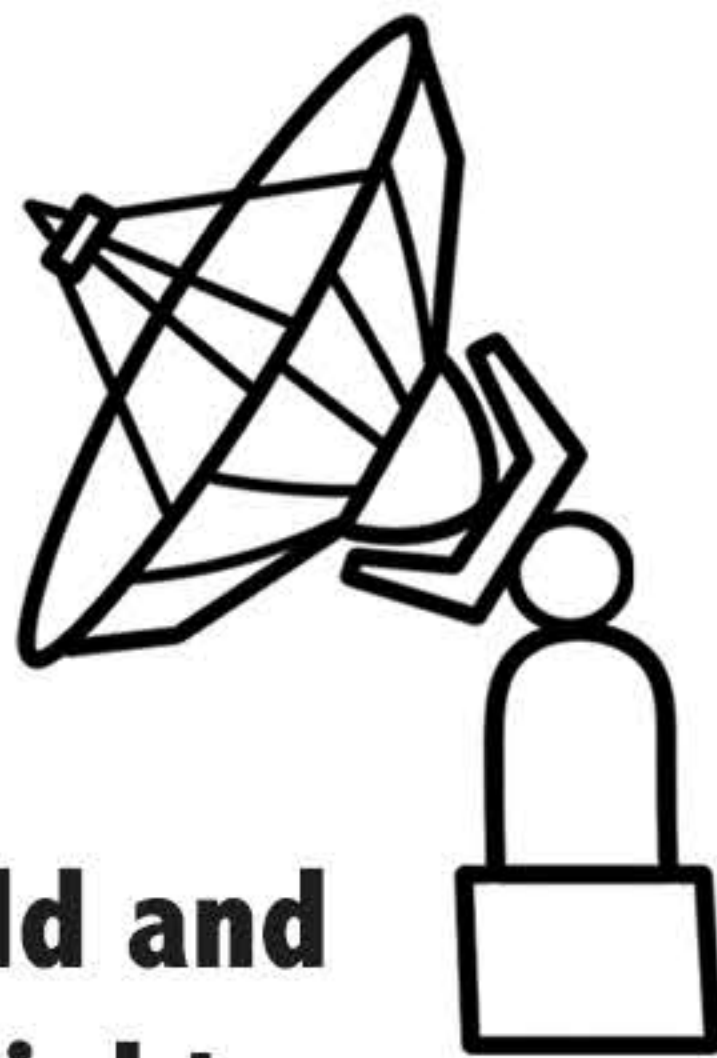




SCAN MESSAGE DECODER



The Space Communications and Navigation (SCaN) Program has antennas around the world and satellites in space to help guide and exchange important information for all NASA spaceflight missions. Astronauts, mission controllers, and scientists rely on SCaN to transmit messages from Earth to space and back in order to communicate.

MESSAGE DECODER

A = 1	B = 2	C = 3	D = 4	E = 5	
F = 6	G = 7	H = 8	I = 9	J = 10	
K = 11	L = 12	M = 13	N = 14	O = 15	Z = 26
P = 16	Q = 17	R = 18	S = 19	T = 20	
U = 21	V = 22	W = 23	X = 24	Y = 25	

SCaN utilizes a fleet of multiple Tracking and Data Relay Satellites (TDRS) located in low Earth orbit to communicate in space. A TDRS can receive many different sources of information, such as a message from an astronaut and images from the Hubble Space Telescope. NASA needs your help. Solve the fraction, decimal, and percentage equations below to decode a message that was sent to a NASA TDRS.

EQUATION	=	CODE
① Simplify the fraction 84/6		
② Turn the fraction 19/100 into a percentage		
③ Multiply 1/3 by 0 then add 1		
④ Turn the decimal 0.01 into a percentage		
⑤ Turn 1/50 into a percentage then subtract 1		
⑥ 1/2 divided by 1/6 equals		
⑦ Simplify the fraction 19/1		
⑧ Divide 6.50 by 3.25 then multiply by 7		



SCAN MESSAGE DECODER



HUBBLE
SPACE
TELESCOPE

After you have solved each math equation, use your answers to decode the mystery message below. Make sure to match each decoded letter with the correct blank spot based off of the circled number on each equation. Then draw NASA your vision of what the mystery message represents.

WRITE IT

8

3

2

5

7

6

4

1

DRAW IT

