1. Identify 3 types of widgets	JLabel, JButton, JTextfield
2. Define widget	A widget is a piece of a graphical user
	interface (GUI).
	It can be seen, typed in or clicked on.
3. What happens in the init method?	You set up the screen.
	You can new or add here (only here).
4. What happens in the actionPerformed	The screen changes.
method?	You can getText and setText here.
5. Name the primary colours.	Red, Green, Blue
6. RGB code for red	255, 0, 0
7. RGB code for blue	0, 0, 255
8. RGB code for green	0, 255, 0
9. RGB code for magenta	255, 0, 255
10.RGB code for yellow	255, 255, 0
11.RGB code for cyan	0, 255, 255
12.RGB code for black	0, 0, 0
13.RGB code for white	255, 255, 255
14.What colour is red+green?	Yellow
15.What colour is green+blue?	Cyan
16.What colour is blue+red?	Magenta
17.The name of the rocket that exploded	Ariane 5
40 seconds after takeoff?	
18. Who made the rocket that exploded?	European Space Agency (ESA)
19.How much was the rocket + payload	\$7.5 billion
worth?	
20.What does the rocket teach us about	If you don't test well, the errors you miss
why testing is important?	might be very expensive.
21.What test case was missed on the	Black Box – average data for speed variable
rocket?	
22. Who made the radiation machine to	American Megatrends
treat cancer?	
23. Where was the location of the cancer	Panama City
machine when it malfunctioned?	
24.What test case was missing on the	White Box – Loop many times
radiation machine?	
25.What resulted from the lack of testing	28 people receive overdoses. 17 die, 11
in the radiation machine?	severely injured.
26.What can we learn about testing from	If you don't test well, you could harm people
the radiation machine failure?	or in extreme cases, even kill them.

27.What are the white box test cases?	lf:
	1. Test each branch
	Loop:
	2. Avoid Loop.
	4. Loop many times
28 What are the black box test cases?	1. Small data
	2. Large data
	3. Average data
	4. Boundary cases
29.What are good boundary cases for	11
integers?	2. 0
	3. 1
30.What are good boundary cases for	1. An empty string
Strings?	2. A number
	3. Dashes and special characters
31. What is a good small case for String?	1. A single character
32.What is a good large case for a String?	Anti dis establish mentarian ism
	(the longest word, or one of them)
33.Define white box testing.	Testing that occurs by looking at the code.
	Your goal is to run each line of code .
34.Define black box testing.	Testing that occurs without looking at the
	code.
	Your goal is to input as many different things
	as possible.
35. Why do we need both white and black	They test different things (running each line
hox testing?	of code AND kinds of input)
box testing:	By approaching testing from different angles
	you can find more errors
26 Tast this loop:	Avoid Loop – empty string
56.100 (int i 0.1 is length () i.e.)	Loop once – string of one character
for (int i=0; i <s.iength(); i++)<="" td=""><td>Loop many times – Normal string</td></s.iength();>	Loop many times – Normal string
37 What String function is used to pull out	Substring
nart of a String?	500501 mg
38 What String function is used to null out	charAt
a single character from a String from a	
a single character from a string from a	
20 What String function finds the location	indexOf
of first instance of a shared and	
of first instance of a character in a	
String?	
40.What is the difference between finding	Array = a.length
an array's length and a String's length?	String = s.length()

41. How do the parameters of substring	The first number is where you start. It is
work?	included.
	The second number is the end – it is NOT
	included. Stop BEFORE the second number.
42.A type that holds ASCII characters.	Char
43.A type that holds a group of	String
characters.	
44.An encoding technique for translating	ASCII
letters to binary.	
45.A's ASCII value	65
46.a's ASCII value	97
47.A general term for encrypted text	Ciphertext
48.A general term for unencrypted text	Plaintext
49.A general term for a series of steps to	Algorithm
encrypt text.	
50.A specific value used by an encryption	Кеу
algorithm to encrypt or decrypt data	
51. Translating plaintext to ciphertext	Encryption
52. Translating ciphertext to plaintext	Decryption
53. Encryption used by Roman military	Caesar shift
54. How do you spell Caesar?	Caesar
55. Encryption that uses a shiny surface	Mirror writing
56. Encryption where the first letters is	Pig Latin
moved to the end and ay is added	
57. Encyrption that uses a randomized	Random Substitution Cipher
alphabet as its key	
58.Writing that is backwards.	Mirror writing
59. Encryption that uses a random	Random Substitution Cipher
alphabet to scramble it.	
60.Encryption that moves letters one	Caesar shift
forward in the alphabet.	
61.Encryption named for a farm animal	Pig Latin
and an ancient language.	
62.The name for (int) – converts from	Casting
char to an int.	
63.How to convert a char to a String	+ ""
	(add an empty String)
64.How to convert a String to an int	Integer.parseInt(the string)
65.How to convert a String to a double	Double.parseDouble(the string)
66.How to convert a char to an int	(int) the char
67.How to convert an int to a char	(char) the int

68.How do you loop through a string?	for(int i=0; i <s.length(); i++)<="" th=""></s.length();>
69.How do you pull off the last letter of a String?	s.charAt(s.length()-1)
70.How do you pull off the first letter of a String?	s.charAt(0)
71.Name the PARC principles.	Proximity
	Alignment
	Repetition
	Contrast
72.Explain contrast.	The element that is the most important, or
	the starting point, stands out.
	It is formatted differently than all of the
	other elements in the app.
73.Explain repetition.	Visual elements should repeat throughout
	the app.
	(fonts, colours, shapes, picture styles,
	sizes)
74.Explain alignment.	Nothing is placed on the screen arbitrarily.
	Every element should line up with others
	on the screen.
75.Explain proximity.	Items relating to each other should be
	grouped together.
	These groups should be visually separated
	from other groups with a space.
76. Why is alignment important?	Placement of elements unifies the page.
77.Why is proximity important?	Gives the page clear structure.
78.Why is contrast important?	The different item provides a starting point
	for the user.
79. Why is repetition important?	Unifies the design. Make it look like it
	belongs together.
80.What is pixelation?	Picture looks blocky.
	It has been enlarged too much.
81.When you stretch a picture in strange	It is warped or distorted.
ways that were not intended, what	
problem results?	