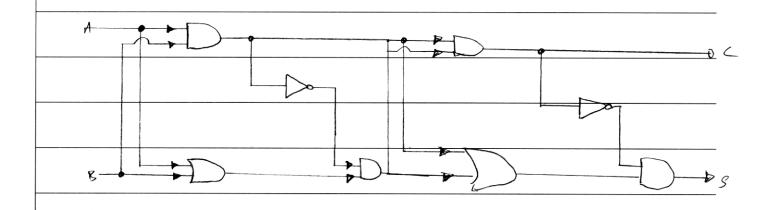


0,25

a) i)	A	В	CARRY	sum	
,	0	0	0	0	
	0	1	0	1	
	(0	0)	
	(1		

ii)	To		coust	nct	a	full	adder,	all	yai	hove	
,	to	do	īs	con	bine	two	half	adde	, , ,	togethe/.	



b) integer representation represents whole numbers, positive

and negative including zero: Whoreas floating

point numbers represent numbers with decimals

and can be witten in the form of the

exponent and mantissa: Integer representation



would be suitable in displaying numbers in situations
where the number is independent and primary.
An example would be in seating accongenients, giving
people an exact number in which to sit on.
Floorting point would be suitable when you want
to find something in a woulfi-dimensional array
whereby the the object can be identified wia
polators. It would also be appropriate when you have
to reduce a my lage number into aloutify notation.
c) i) The car is moving diagonal up right.
X is moving to the right 13mm and
Y is moving up 15mm.
$\frac{2}{13}$ $\frac{2}{13}$ $\frac{2}{28}$ $\frac{2}{13}$
15 Z8
The remainder that will be used for
this data stream would be 2.
J. Commission of the commissio



c) (u)	BEGIN
	READ Message sent by transmitter
	camt length of data stream
1	MEN count count correct CHECKSUM
	ELSE IF data stream AND checksum
	match with the message
	THEN move X to the right
	measure X to the right in 13mm
	AND move Y up
	Measure Y UP in 15mm
	END
	•