1. (a) x-1=0⇒ 1-1+1=0+1 [Adding 1 both sides] (b) x+1=0⇒ 1+1-1=0-1 [Subtracting 1 both sides] **=> 1=−1** (c) x-1=5 ⇒ 1-1+1=5+1 [Adding 1 both sides] ⇒ 1+6-6=2-6 (d) x + 6 = 2[Subtracting 6 both sides] ±> 1 = -4 ⇒ y-4+4=-7+4 (c) y-4=-7(Adding 4 both sides) $\Rightarrow y = -1$ (f) y - 4 = 47-4-4=4-4 [Adding 4 both sides] ⇒ y=8 (g) >+4=4 [Subtracting 4 both sides] ⇒ 114-4-4-4-4 (b) y + 4 = -4[Subtracting 4 both sides] ⇒ v = −3 $\Rightarrow \frac{y}{3} \cdot \frac{42}{3}$ 2. (a) N = 42[Dividing both sides by 3] ⇒ /=14 (b) $\frac{h}{2} = 6$ ⇒ ½x2=6x2 [Multiplying both sides by 2] ED 6-12 (c) $\frac{p}{7} = 4$ ⇒ ^p/₇×7 = 4×7 [Multiplying both sides by 7] $\Rightarrow p=28$ $\Rightarrow \frac{4r}{4} = \frac{25}{4}$ (d) 4x = 25 [Dividing both sides by 4] $\Rightarrow 1 = \frac{25}{4}$ ⇒ 1, 36 (c) by -36[Dividing both sides by B]

 $\Rightarrow y = \frac{9}{2}$

				-	
1)	add 2 to a	=	4+2		
2)	subtract 1 from b	-	b-7		
3)	double c	=	20	or	cx2
4)	add 1 to d	=	d+1		
5)	subtract 3 from e	=	e-3		
6)	half of f	=	16 F	or	1/2
7)	multiply g by 4	-	49	or	gx4
8)	multiply h by 3	=	34	or	hx3
	divide i by 3	-	1/3	or	i+3
10)	add 4 to j	=	J+4		- 1
11)	double k and add 1	-	2k+1		
12)	double I and subtract 2	=	21 -2		
13)	halve m and add 3	=	1/2 m+3	or	-/2 + 3
14)	halve n and subtract T	=	1/2 n-7	ог	1/2-1
15)	multiply o by 3 and add 4	=	30+4		
16)	multiply p by 5 and subtract 2	=	5p-2		
17)	add 7 to r	*	r+7		
18)	add s to 7	=	5+7	or	7+5
19)	subtract 10 from t	2	t-10		
20)	subtract u from 10	=	10-u		
	multiply 2 by v	=	2v		
	multiply w by 2	=	2w		=,===
	divide x by 5	-	1/5 X	or	1/5
	divide 5 by y		5/,		5+y

1)	There are 12 packets of crisps in a big pack.	=	12n
	I buy n big packs of crisps.		
	How many packets of crisps have I bought?		
2)	There are t pencils in a pack. I buy 4 packs.	=	4t
·	How many pencils?		
3)	I have 6 pens. A friend gives me n more pens.	=	n+6
ı	How many pens do I have now?		
4)	A bag of apples contains 6 apples. I buy w bags of apples.	=	6w
	How many apples have I bought?		
5)	I have a box of d chocolates. I eat 7 of them.		d-7
	How many chocolates are left?		
6)	The temperature is 62°F. It gets warmer by h degrees.	=	62+h °F
	What is the temperature now?		(or h+62)
7)	There are 20 balloons at a party, y balloons are burst.	=	20-y
	How many balloons are left?		
8)	There are z fish in an aquarium. % of the fish are angelfish.		% 2
	How many fish are angelfish?		
9)	There are 20 red and blue marbles in a bag, s marbles are	=	20-5
	red. How many are blue?		
10)	In a class of c children, ² /s are boys.	=	1/5
	What fraction are girls?		(trick problem)
11)	There are s cars in a carpark.	7=	45
sõtsi	How many wheels will they have in total?		
12)	I have u soft toy salamanders. I get v more.	-	U+V
	How many salamaners do I have now?		

1. Since, a triangle is possible whose sum of the lengths of any two sides would be greater than the length of third side.

 $2 \cdot 5 > 3$ Yes

3 + 5 > 2Yes

This triangle is not possible.

(III) 3 cm, 6 cm, 7 cm

3 - 6 - 7 Yes

 $6 \cdot 7 > 3$ Yes

3 - 7 > 6 Yes

This triangle is possible.

6 cm, 3 cm, 2 cm (m)

> 6 - 3 > 2Yes

 $6 \cdot 2 > 3$ Yets

2 + 3 > 6 No.

This triangle is not possible.

Join OR, OQ and OP.

h OP + OQ > PQ ? $\mathbf{0}$

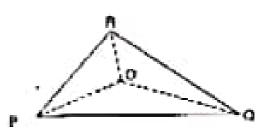
Yes, POQ form a triangle.

Is OQ + OR > QR? (a)

Yes, ROO form a triangle.

Is OR + OP > RP? (iii)

Yes, ROP form a triangle.



3. Since, the sum of lengths of any two sides in a triangle should be greater than the length of third side.

Therefore.

$$AB = RM > AM$$

Adding eq. (i) and (ii).

Hence, it is true.

4. Since, the sum of lengths of any two sides in a triangle should be greater than the length of third side.

Therefore.