

Calculate.

$2 + 4 =$

$9 + 2 =$

$18 - 5 =$

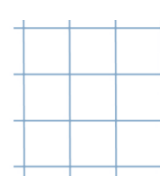
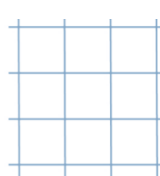
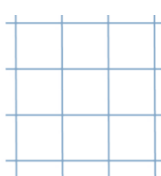
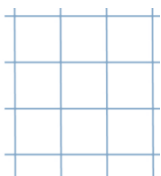
$11 - 3 =$

$12 + 4 =$

$19 + 2 =$

$38 - 5 =$

$27 - 3 =$



Fill the diagrams below according to the equations.

$$x + 2 = 21$$

$$9 + x = 15$$

$$x - 8 = 12$$

$$16 - x = 6$$



Using the example below, fill in the diagram for each equation, solve it, and check your answer.



x	-	6	=	1	6
---	---	---	---	---	---

X	=
---	---

x	+	5	=	1	2
---	---	---	---	---	---

X	=
---	---

1	3	+	x	=	2	0
---	---	---	---	---	---	---

X	=
---	---

4

How many straight lines you can plot between these points if each line is plotted through 2 points like straight line KM? Name all these straight lines. Use a ruler.

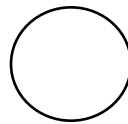
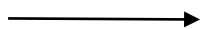


5

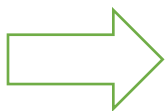
Perform the following operations:



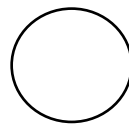
Change the color



Add one more circle



Flip



Change the size



GOAT

Change T to L



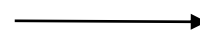
NOON

Read from right to left



12

Reduce by 5



20

Add 7



6

Make a replacement:

CAT

C → R

DOG

D → H

RAFT

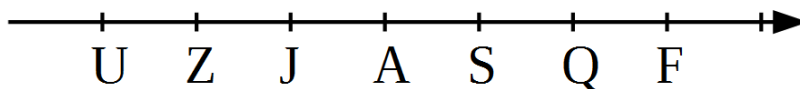
R → DR

LOCK

L → CL

7

Look at the number line where letters have replaced the real numbers. Let us call it letter number line. We know that $Z + 1 = J$.



a) Write the missing numbers:

$$Z + \dots = A$$

$$S - \dots = Z$$

$$F - \dots = S$$

$$Z - \dots = U$$

$$J + \dots = Q$$

$$Q + \dots = F$$

b) Use the same letter number line to find the results of the additions and subtractions:

$$S - 3 = \dots$$

$$U + 3 = \dots$$

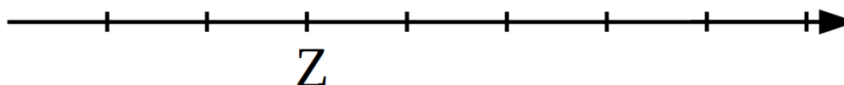
$$Q - 2 = \dots$$

$$S + 1 = \dots$$

$$F - 1 = \dots$$

$$Z + 2 = \dots$$

c) Use the results of additions and subtractions below to place the crazy numbers onto the number line:



$$Z + 1 = K$$

$$K + 2 = F$$

$$F - 1 = R$$

$$R - 3 = W$$

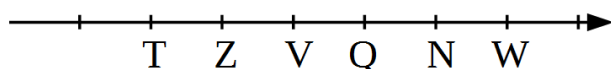
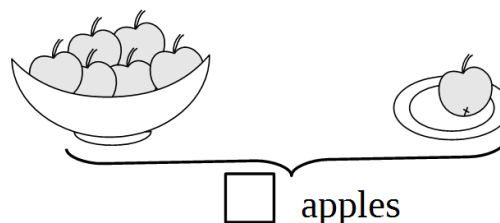
$$F + 2 = N$$

$$N - 1 = S$$

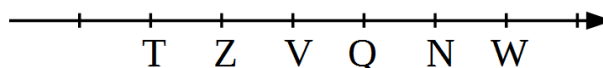
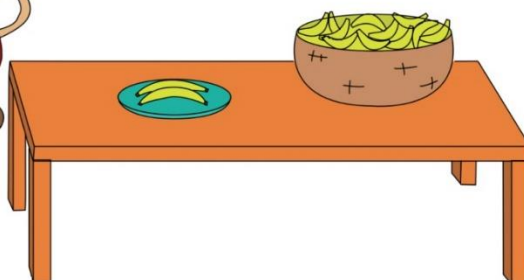
$$Z - 2 = P$$

$$K + 3 = \dots$$

d) There are V apples in the vase and one more in a plate. How many apples are altogether?

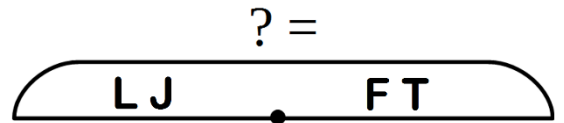


e) There are N bananas on the table. Some are on the plate and the rest are in the box. How many bananas are in the box?

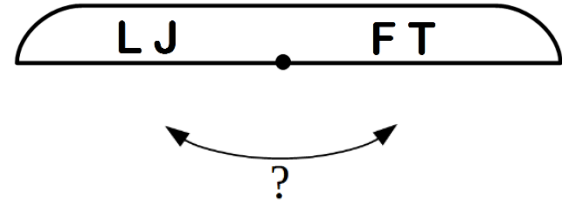


8 Solve the word problems. Use the diagrams to analyze them.

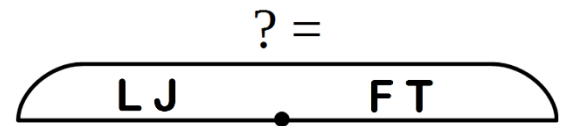
a) On a fishing trip, Foxy Tail caught 5 fish and Little Joe caught 10 fish. How many fish did the brothers catch on their trip?



b) On a different fishing trip, Foxy Tail caught 5 fish and Little Joe caught 10 fish. How many more fish did Little Joe catch than his brother?



c) Once again the brothers went on a fishing trip, Foxy Tail caught 5 fish and Little Joe caught 10 fish more. How many fish did Little Joe and Foxy Tail catch altogether?



9* If Little Joe buys a watermelon, he'll have 2 coins left. If he wants to buy 2 watermelons, he needs another 3 coins. How much does one watermelon cost?

10* Circle all pairs $\square \bigcirc$ in the following chain below and perform a two-step replacement according to the rules:

