Homework

1 Calculate and use the numbers to decipher the characters from the R. Kipling's Junale Book.

S	29+1	○
E	5+45	○
Y	37+3	○
K	8+52	○
O	71+9	○
R	12+6	○
M	86+4	○
T	36-4	○
N	7+63	○

90	80	70	60	50	40	30

Decipher the name of a famous folklore traveler.

A	20-3	○
S	60-8	○
D	30-9	○
I	70-2	○
B	40-7	○
L	10+4	○
N	90-5	○
O	50-1	○
R	80-6	○

52	68	85	33	17	21

the

52	17	68	14	49	74

2 Fill in the diagram for the equations, solve them, and check your answers.

| x | - | 2 | 2 | = | 5 |

| 2 | 8 | - | x | = | 1 | 2 |

3 Arrange the items on the shelves in different ways.
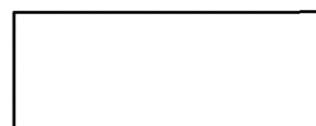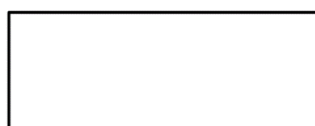
4   Find the result without calculations:

67 + 29 – 29 = _____   67 + 29 – 29 – 54 + 54 = _____

54 – 47 + 47 = _____   54 – 47 + 47 + 81 – 81 – 49 + 49 = _____

28 + 69 – 69 = _____   28 + 69 – 69 – 17 + 17 + 53 – 53 = _____

5   Find the inverse operations when possible, cross out the operations that can't be inverse:

Operation: to put on shoes   **Inverse:** _____

Operation: to break a toy house   **Inverse:** _____

Operation: to cut a water melon   **Inverse:** _____

Operation: to turn on the TV   **Inverse:** _____

Operation: to fry an egg   **Inverse:** _____

Operation: to put a cat in a cage   **Inverse:** _____
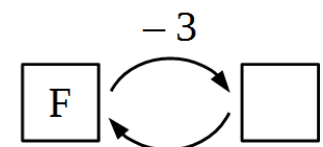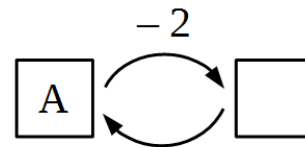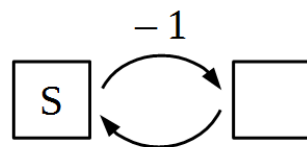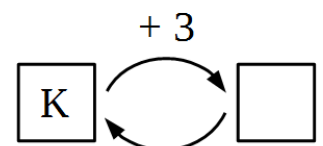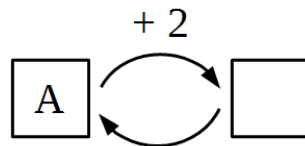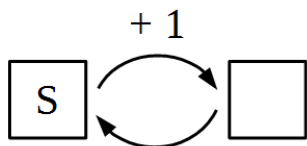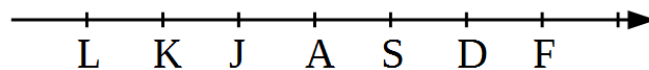
Give your own example on an operation. Does your operation have an inverse one?

Operation:_____   **Inverse:** _____

6   Do the operations using the line:

L   K   J   A   S   D   F

+ 1   [S] → [ ]

+ 2   [A] → [ ]

+ 3   [K] → [ ]

– 1   [S] → [ ]

– 2   [A] → [ ]

– 3   [F] → [ ]

7 Present as tens and ones:

69 = ☐ t + ☐ o = 60 + 9 = _____   38 = ☐ t + ☐ u = _____

73 = ☐ t + ☐ o = _____   24 = ☐ t + ☐ u = _____

57 = ☐ t + ☐ o = _____   44 = ☐ t + ☐ u = _____

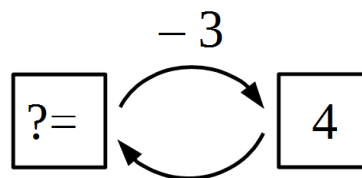**8** Calculate according to the example using column addition method:

```
  1
  2 1        2 2        2 3        2 4        2 5        2 6        2 7
+   9      +   9      +   9      +   9      +   9      +   9      +   9
  3 0
```
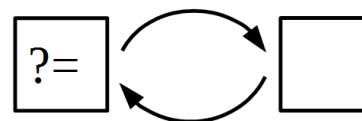
9 Analyze the operations to solve the word problems:

A. After Foxy Tail ate 3 apples during lunch, he had 4 of them left. How many apples did he have before lunch?
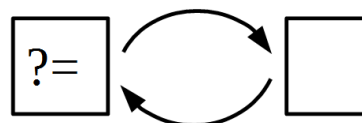
– 3

?= ⟳ 4

_____

B. After little Joe peeled 27 potatoes, he still had 9 more to peel. How many potatoes did he have to peel in all?

?= ⟳ ☐

_____

C. After receiving a payment of 27 mouse coins, Jake the Mouth had 49 mouse coins in all. How many mice coins did he have prior to the payment?
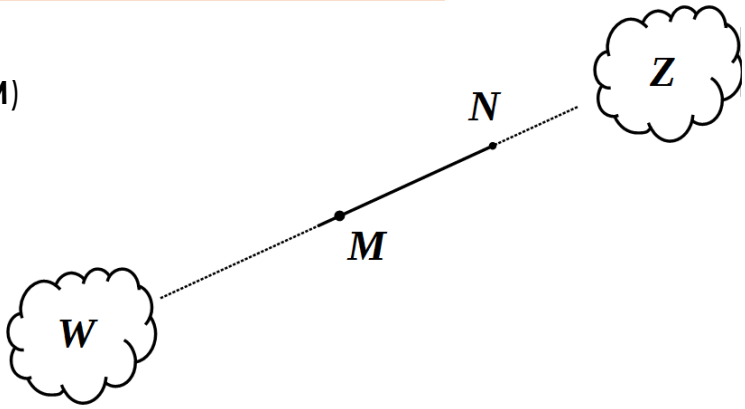
?= ⟳ ☐

_____

10

Compare rays [**MN**) and [**NM**)

List the clouds pierced by ray [**MN**):

_____

List the clouds pierced by ray [**NM**):

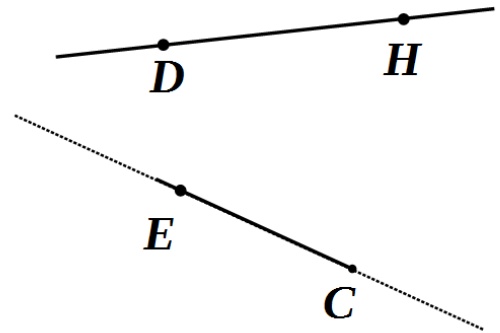_____

List the clouds pierced by straight line **MN**: _____

N

Z

M

W

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11 Find the point where ray [**CE**) intersects straight line **DH**. Label it **S**.

D *H*

E

C

Does ray [**EC**) intersect straight line **DH**? ____

Does ray [**CE**) intersect ray [**DH**)? ____

Does ray [**CE**) intersect ray [**HD**)? ____

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12 Follow the instructions:

1. Plot the line segment [**PQ**].

2. Plot the straight line (**LR**).

3. Find their intersection point and label it **W**.

4. Plot the ray [**WT**).

T

P

R

L

Q
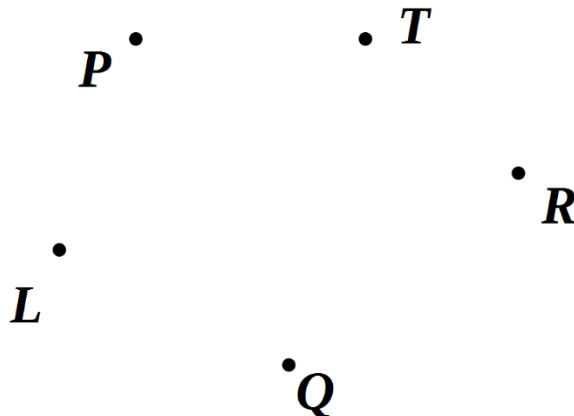
13 Imagine you have three strips of paper. Color these strips:
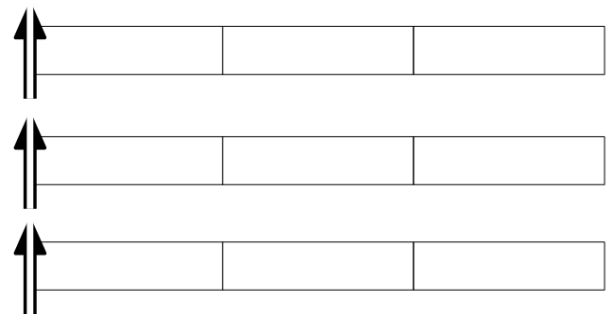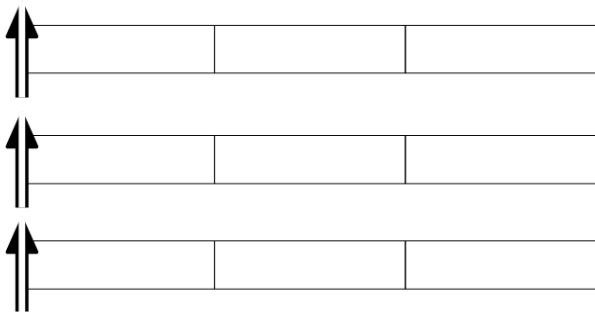
If you glue these strips, how many different three color tapes can you make?

Draw them here:

Test yourself using real color paper strips.

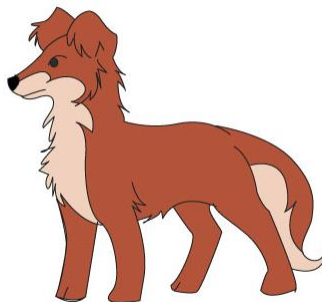Now, how many different flags can you make out of these tricolor strips?

Why are there more tricolor flags than tricolor strips? _____
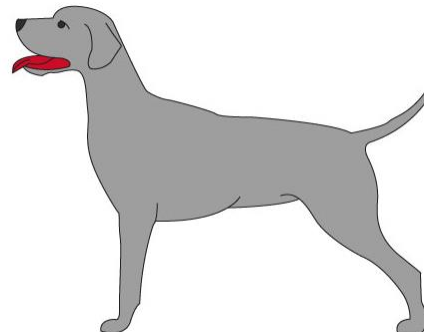
_____

14 Each of the three boys named Nick, John, and Mike owns one of the three dogs on the picture: a collie (brown) , a hound (gray), and a spaniel (red). Write the name of each owner under the picture of his dog if John does not own the hound, and John and Mike do not own the spaniel.