

# 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  $30-9$

52	68	85	33	17	21

I  $70-2$

B  $40-7$

L  $10+4$

the

N  $90-5$

O  $50-1$

R  $80-6$

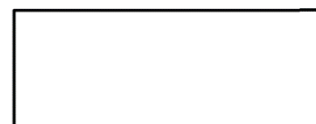
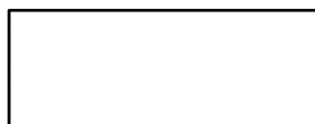
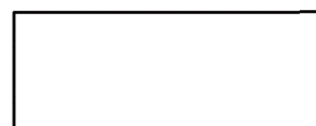
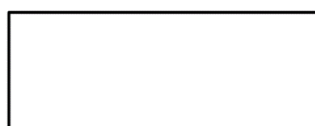
52	17	68	14	49	74

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

$x - 22 = 5$

$28 - x = 12$

3 Arrange the items on the shelves in different ways.



4 Find the result without calculations.

$67 + 29 - 29 = \underline{\quad}$

$67 + 29 - 29 + 54 - 54 = \underline{\quad}$

$54 - 47 + 47 = \underline{\quad}$

$54 - 47 + 47 + 81 - 81 - 49 + 49 = \underline{\quad}$

$28 + 69 - 69 = \underline{\quad}$

$28 + 69 - 69 - 17 + 17 + 53 - 53 = \underline{\quad}$

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

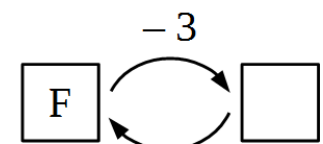
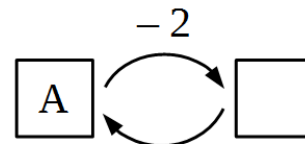
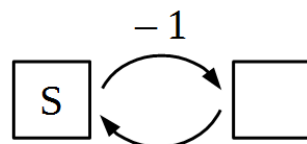
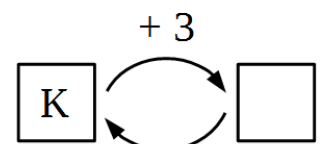
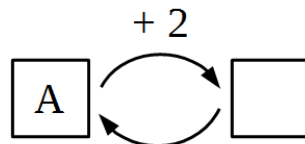
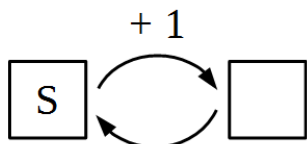
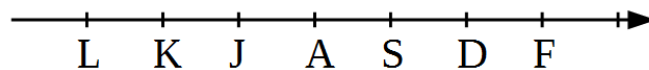
**Inverse:** \_\_\_\_\_

Give your own example on an operation. Does your operation have an inverse one?

**Operation:** \_\_\_\_\_

**Inverse:** \_\_\_\_\_

6 Do the operations using the line if  $K-L=1$ .



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Present as tens and ones.

$$69 = \square \text{ t} + \square \text{ o} = 60 + 9 = \underline{\hspace{2cm}}$$

$$38 = \square \text{ t} + \square \text{ u} = \underline{\hspace{2cm}}$$

$$73 = \square \text{ t} + \square \text{ o} = \underline{\hspace{2cm}}$$

$$24 = \square \text{ t} + \square \text{ u} = \underline{\hspace{2cm}}$$

$$57 = \square \text{ t} + \square \text{ o} = \underline{\hspace{2cm}}$$

$$44 = \square \text{ t} + \square \text{ u} = \underline{\hspace{2cm}}$$

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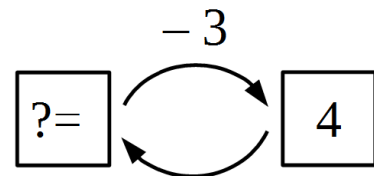
Calculate according to the example using column addition method.

<b>1</b>						
2 1	2 2	2 3	2 4	2 5	2 6	2 7
+ 9	+ 9	+ 9	+ 9	+ 9	+ 9	+ 9
3 0						

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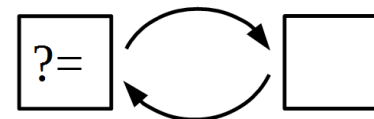
Analyze the operations to solve the word problems.

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



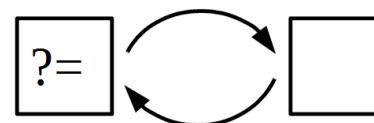

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**B.** After little Joe peeled 27 potatoes, he still had 9 more to peel. How many potatoes did he have to peel in all?




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




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Compare rays  $[MN]$  and  $[NM]$

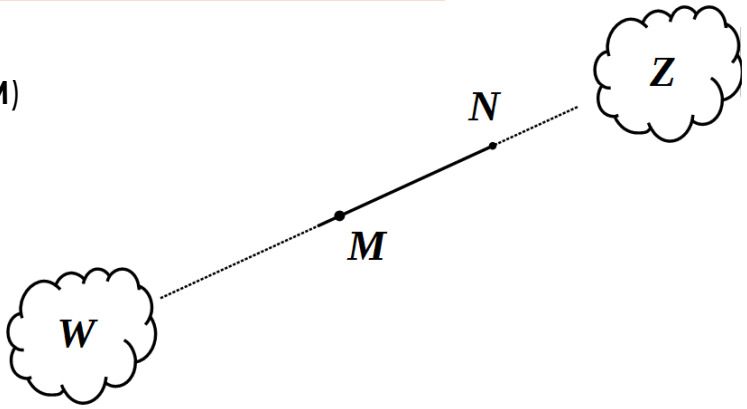
List the clouds pierced by ray  $[MN]$ :

\_\_\_\_\_

List the clouds pierced by ray  $[NM]$ :

\_\_\_\_\_

List the clouds pierced by straight line  $MN$ : \_\_\_\_\_



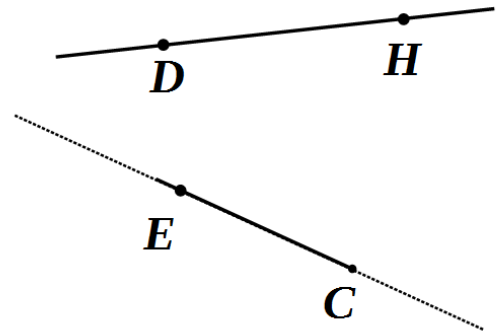
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Find the point where ray  $[CE]$  intersects straight line  $DH$ . Label it  $S$ .

Does ray  $[EC]$  intersect straight line  $DH$ ? \_\_\_\_

Does ray  $[CE]$  intersect ray  $[DH]$ ? \_\_\_\_

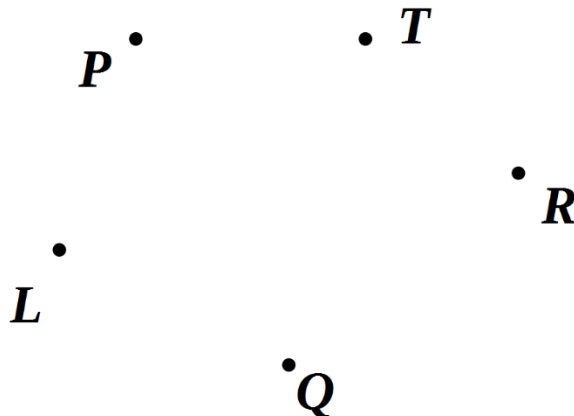
Does ray  $[CE]$  intersect ray  $[HD]$ ? \_\_\_\_



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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  $[WT]$ .



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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 multicolor flags can you make with these strips?

Draw them here:

Why are there more flags than tricolor strips? \_\_\_\_\_

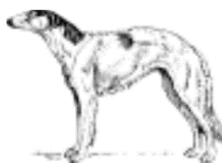
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Each of the three boys named Nick, John, and Mike owns one of the three dogs on the picture: a collie, a hound, and a spaniel. Write the name of each owner under the picture of his dog if John does not own the hound, and John and Mike do not own the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



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