



## Combining Like Terms at the zoo

One spring day a storm hit the zoo. The storm did not hurt anyone, human or animal. The one thing that it did do was open every door in the zoo. Animals were roaming all over the zoo. The strange thing was that the animals were not hurting each other. None of the animals were where they belonged. It was a mess. The zoo keepers all began to gather the animals to put them back in their homes.

On one side of the zoo there were 3 zebras, 2 monkeys, 15 penguins. One more zebra, 5 more monkeys and 3 penguins ran to the other side of the zoo.

The zoo keeper put all of the zebras in the zebra pen, the monkeys in the monkey home, and the penguins in their home.

$$3Z + 2M + 15P + 1Z + 5M + 3P$$

$$3Z + 1Z = 4Z$$

Zebra

$$2M + 5M = 7M$$

Monkey

$$15P + 3P = 18P$$

Penguins

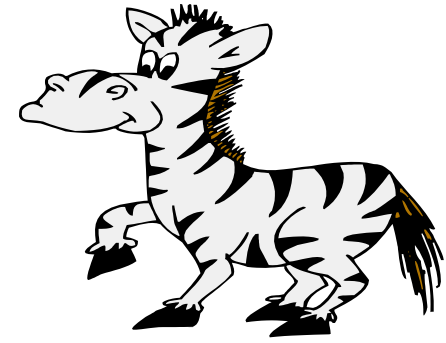
**ANSWER:  $4Z + 7M + 18P$**

**The final answer is each number of animal in their pen. Don't put them all in one pen.**

Put all of these animals in their pens.

15 Monkeys + 10 Penguins + 5 Bears – 4 Monkeys + 5 Penguins + 2 Bears

$15M + 10P + 5B - 4M + 5P + 2B$



$$15M - 4M = 11M$$

Monkeys

$$10P + 5P = 15P$$

Penguins

$$5B + 2B = 7B$$

Bears

ANSWER



Move red box to reveal answer.



Now solve these together.

1.  $2Z + 6E + 4Z - 2Z$

zebra

elephant

2.  $5M + 3B - 3M + 2M$

monkey

bear

3.  $4M - 6B + 3P + 6B$

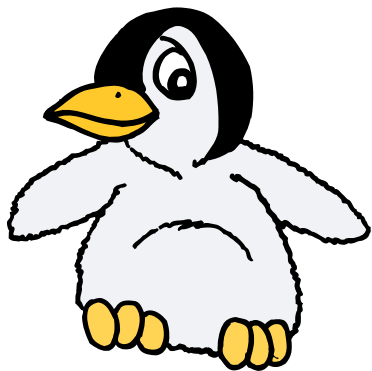
monkey

bear

penguins

Move red box to reveal answer





## Combining Like Terms at Zoo

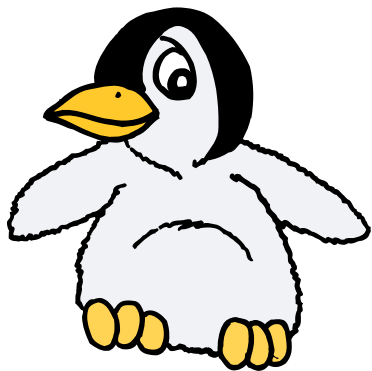
\_\_\_\_\_

name

Put the animal in the pens to solve. Remember the final answer is how many in each pen. DON'T put them all in one pen.



1.  $12P + 5M + 6M - 4P$
2.  $15P + 6M - 3P + 7Z$
3.  $5Z + 4M + 7Z - 3m$
4.  $10M - 3M + 4P + 5P$
5.  $10Z - 4B + 3Z + 16B - Z$
6.  $-5M - 3P + 5P + 12P$
7.  $12P - 4m + 8P - 3M - 2p$
8.  $10B - 5M - 4B + 8B - 4m$
9.  $4Z + 3Z - 6Z + B$
10.  $7B + 3X - 8B + 6X$



## Combining Like Terms at Zoo

\_\_\_\_\_ name



Put the animal in the pens to solve. Remember the final answer is how many in each pen. DON'T put them all in one pen.

1.  $12P + 5M + 6M - 4P$   $8P + 11M$

2.  $15P + 6M - 3P + 7Z$   $12P + 6M + 7Z$

3.  $5Z + 4M + 7Z - 3m$   $12Z + M$

4.  $10M - 3M + 4P + 5P$   $7M + 9P$

5.  $10Z - 4B + 3Z + 16B - Z$   $12Z + 12B$

6.  $-5M - 3P + 5P + 12P$   $-5M + 14P$

7.  $12P - 4M + 8P - 3M - 2p$   $18P + -7M$

8.  $10B - 5M - 4B + 8B - 4m$   $14B + -9M$

9.  $4Z + 3Z - 6Z + B$   $Z + B$

10.  $7B + 3X - 8B + 6X$   $-B + 9X$