



# 1<sup>st</sup> Grade STEM Pre-Field Trip Worksheet

The Living Desert is excited to have you come and visit all our wonderful animals like our meerkats! Before you go, complete the following worksheet to help our Zookeeper Emily, who is making the diets (the daily food) for our meerkats!

Zookeeper Emily is making the diets for the meerkats! They eat a diet of bugs, fruit and vegetables. She makes the diets carefully by weighing out each amount of food.

1. Our meerkat Curi gets 9 pieces of bugs, 2 pieces of fruit and 6 pieces of vegetables. How many total pieces of food does Curi get in his diet?

$$9 \text{ bugs} + 2 \text{ fruits} + 6 \text{ vegetables} = 20 \text{ total pieces}$$

2. Next, Emily has to make the diet for a brand-new meerkat, Nemo! Emily knows that the meerkat needs to have 20 total pieces in its diet with 12 pieces of bugs and 7 pieces of vegetables. How many pieces of fruit is the new meerkat supposed to get?

$$9 \text{ bugs} + 2 \text{ fruits} + 6 \text{ vegetables} = 20 \text{ total pieces}$$

3. Before Emily has to give out the meerkats' their food, she thinks one of the diets has too much food! One of the diets has 25 pieces of food but this one is meant for the baby meerkat, Rose, and she should only have 15 pieces of food. How many extra pieces of food were put in?

$$25 \text{ total pieces} - 15 \text{ total pieces} = 10 \text{ extra total pieces}$$

4. Emily has all the diets made the right way now but checks to make sure she is feeding them at the right time. Look at the clock below and write what time does Emily need to feed the

11:30





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5. Emily sees that she has sometime before she has to feed the meerkats so, she gets them some special enrichment for the day, earthworms! Earthworms are one of the meerkats' favorite treats so she picks an earthworm for each of the meerkats but want to make sure she gets the right size.

A.



B.

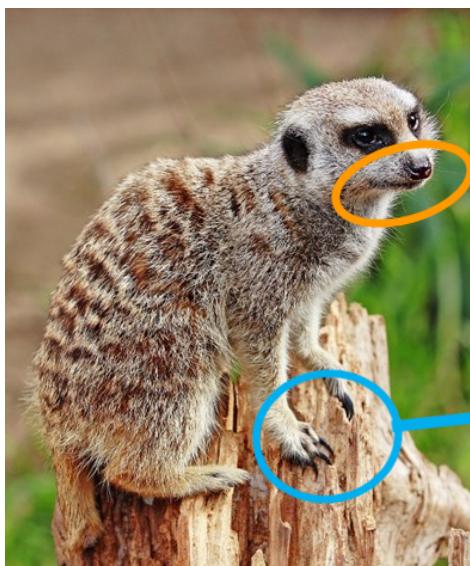


C.



Order the earthworms from longest to smallest: \_\_\_\_\_ B \_\_\_\_\_, \_\_\_\_\_ A \_\_\_\_\_, \_\_\_\_\_ C \_\_\_\_\_

6. It's feeding time! Emily, thanks to all of your help, is able to feed the meerkats. Emily now also has to figure out a way to dig them a burrow in their home and way to keep the sun out of her eyes while she is working. Look at the meerkat below and read about some of its parts that it uses to survive. Looking at the meerkat, draw a picture of something you could make or do so Emily can dig a burrow and keep the sun out of her eyes.



4 sharp claws on each front foot makes digging easy work for a meerkat looking for food or making a new burrow for a home in the ground.

Dark colored skin and fur around their eyes blocks sunlight from getting into their eyes during the day when they are looking for food or keeping watch for predators.



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In the box, draw something you could make to help Emily dig like a meerkat.

Wearable hand shovels like the claws on the meerkat's paws.



In the box, draw something you could make to help Emily keep the sun out of her eyes like a meerkat.

Sunglasses like the dark hair around the meerkat's eyes

