

Name _____ Date _____

MATH EXTENSION A

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Investigation 1: Mealworms

Mealworms and people have body parts. Count the number of mealworms and people in your group, and record in the table. Count the number of legs, fingers, heads, and antennae on mealworms and people in your group, and record. Record the total number of body parts in your group.

Body part	I counted	I counted	Total body parts
	_____ mealworms.	_____ people.	
legs			
fingers			
heads			
antennae			

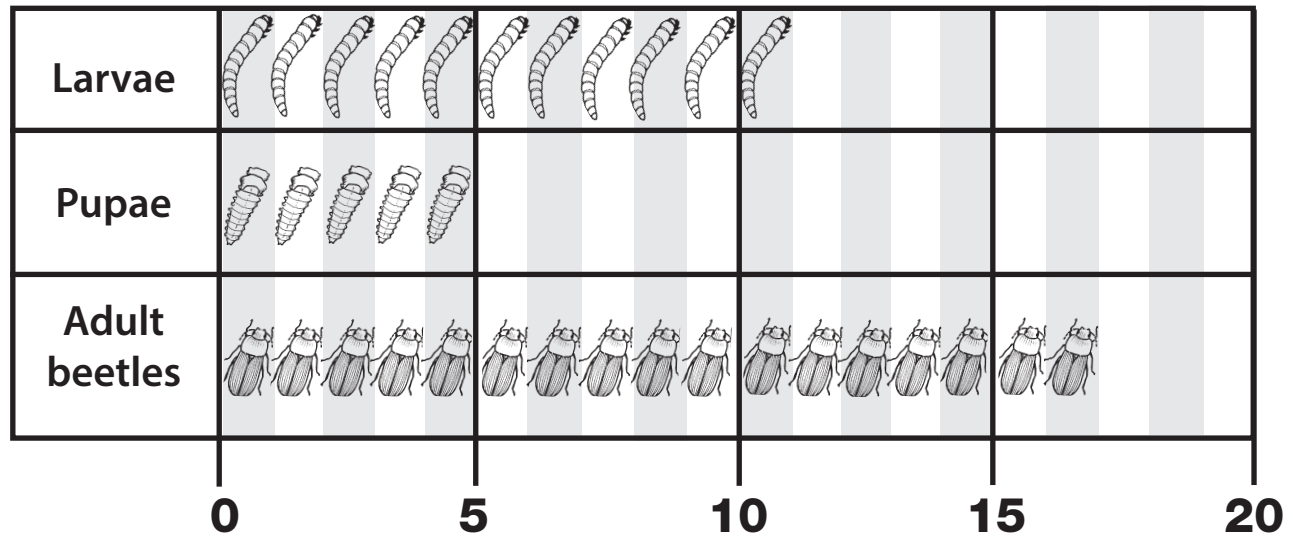
Show your work here.

Name _____ Date _____

MATH EXTENSION B

Investigation 1: Mealworms

A Class's Graph of Mealworm Investigation—March 2



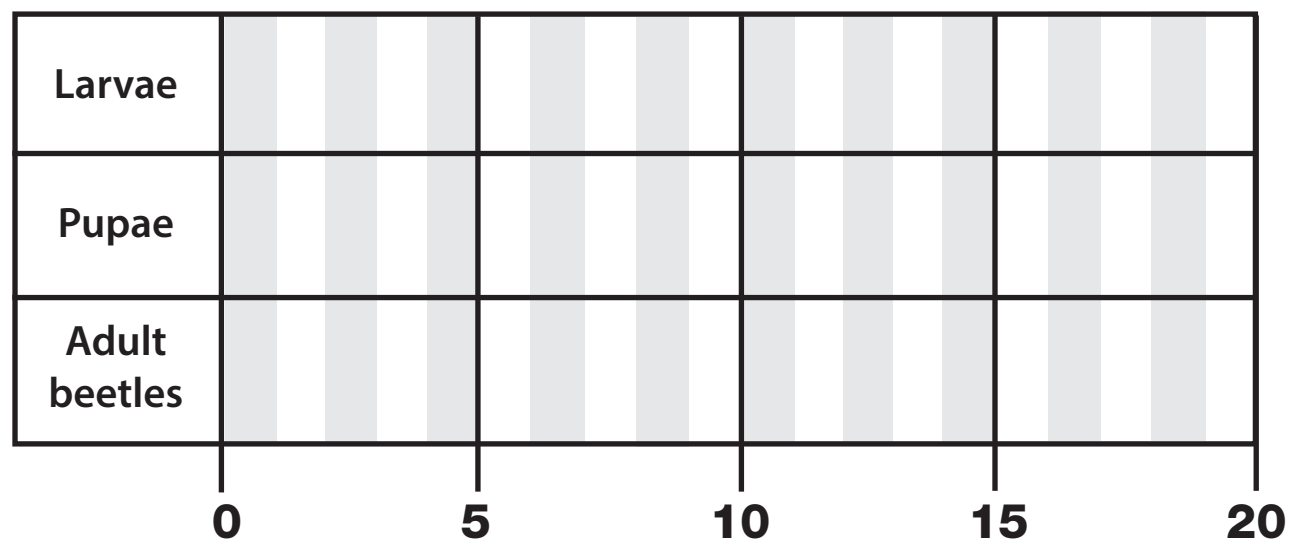
How many more adults were there than larvae?

How many fewer pupae were there than larvae?

How many insects did they have all together?

When the children came to school the next day, 8 larvae had changed to pupae. Complete the graph for March 3.

A Class's Graph of Mealworm Investigation—March 3



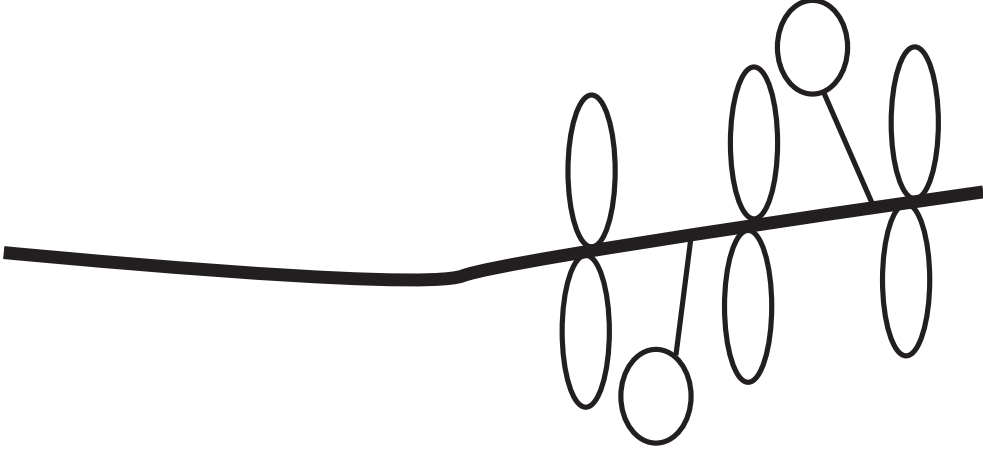
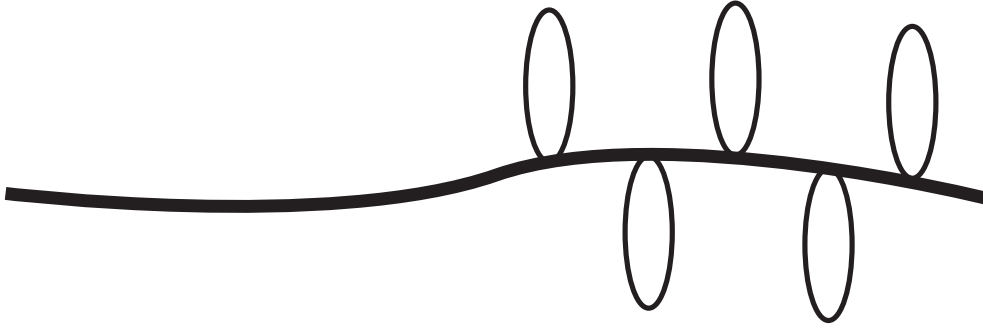
Name _____ Date _____

MATH EXTENSION A

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Investigation 2: Brassica Seeds

Find the pattern of leaves on each stem.
Continue the pattern. Draw three more leaves on each.

Make your own pattern
of leaves on this stem.



Name _____ Date _____

MATH EXTENSION B

Investigation 2: Brassica Seeds

Two students planted beans in their garden. They thought it would be interesting to compare the length of the stems that grew and the number of leaves that were on each stem. They made a table of their observations.

Can you find the number pattern in the lists? Predict which numbers will come next.

Stem Growth Chart

Day	Stem length
1	0 cm
4	4 cm
7	8 cm
10	12 cm
13	16 cm
16	20 cm
19	
21	

The stem number pattern grows by _____ .

Leaf Growth Chart

Day	Number of leaves on a stem
1	0
4	2
7	2
10	4
13	4
16	6
19	
21	

The leaf number pattern grows by _____ .

Name _____ Date _____

MATH EXTENSION A

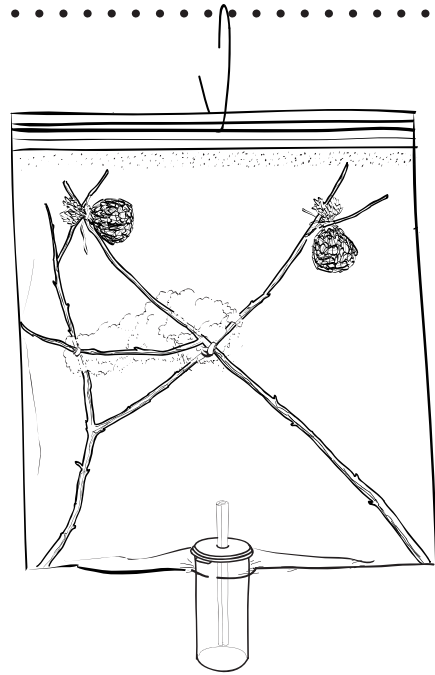
Investigation 3: Milkweed Bugs

A teacher wants his students to make habitats for milkweed bugs. He has 6 groups of students in his class. Each group needs these things.

3 sticks

50 sunflower seeds

Each group will make 100 air holes in the bags.



How many sticks will the teacher need for all 6 groups?

How many sunflower seeds will the class need?

How many holes will the groups punch all together?

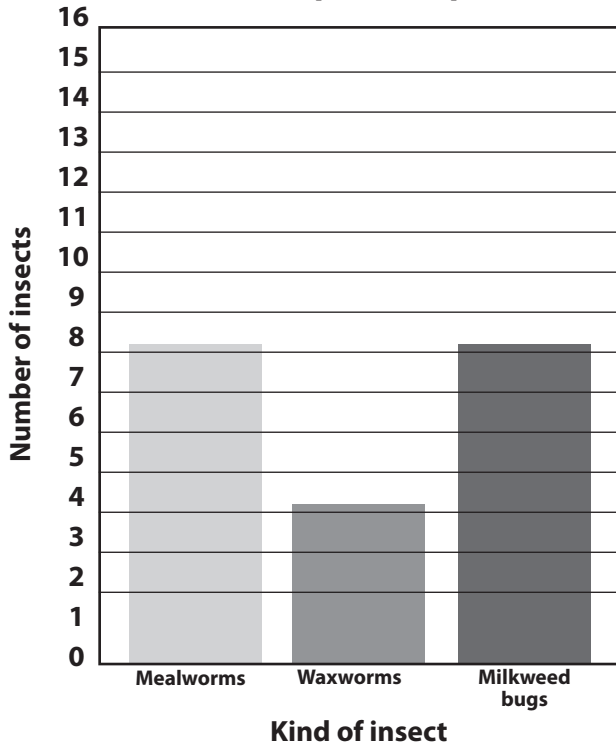
Name _____ Date _____

MATH EXTENSION B

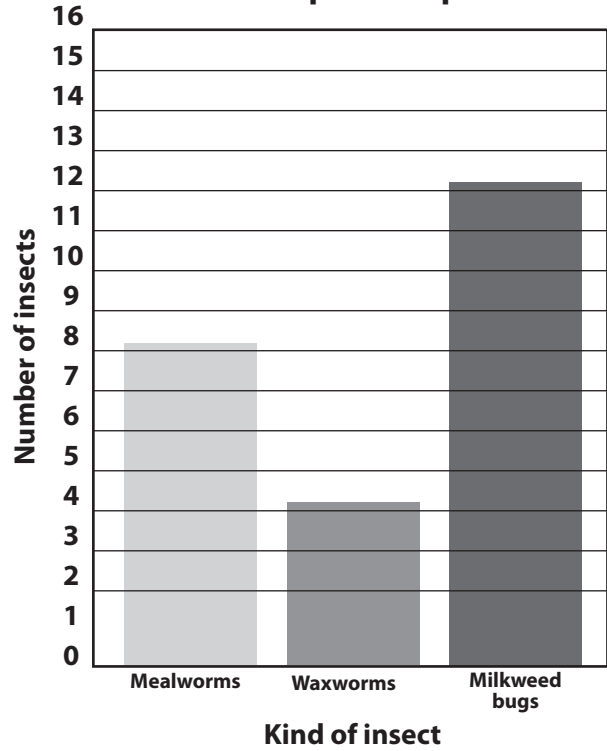
Investigation 3: Milkweed Bugs

A second-grade class is studying insects. Each group is taking care of three kinds of insects. Here are graphs of two groups of insects on the same day.

Group A Graph



Group B Graph



1. How many milkweed bugs does Group A have?

2. Which insect does Group A have the fewest of?

3. How many insects does Group A have in all?

4. Which insect does Group B have the most of?

5. How many more mealworms than waxworms does Group B have?

6. Together, how many mealworms and milkweed bugs does Group B have?

7. Which insect does each group have the same number of? _____

8. Who has more insects, Group A or Group B? _____

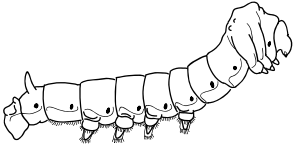
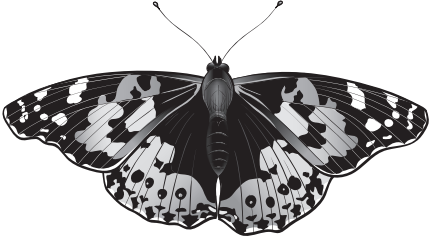
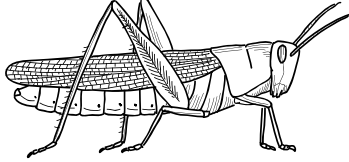
Name _____ Date _____

MATH EXTENSION A

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Investigation 4: Silkworms

You want to buy insects. What coins could you use to pay for each insect below? You need exact change! Show your work.

<p style="text-align: center;">Silkworm</p>  <p style="text-align: center;">16¢</p>	<p style="text-align: center;">Butterfly</p>  <p style="text-align: center;">32¢</p>	<p style="text-align: center;">Big grasshopper</p>  <p style="text-align: center;">54¢</p>
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Name _____ Date _____

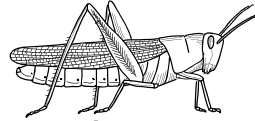
MATH EXTENSION B

Investigation 4: Silkworms

You have these coins.



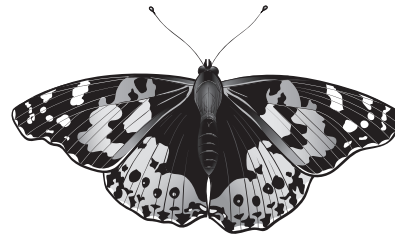
Insects cost this much.



Grasshoppers, 25¢ each



Ants, 6¢ each



Butterflies, 50¢ each

1. What coins would you use to buy 3 ants? _____

2 grasshoppers? _____

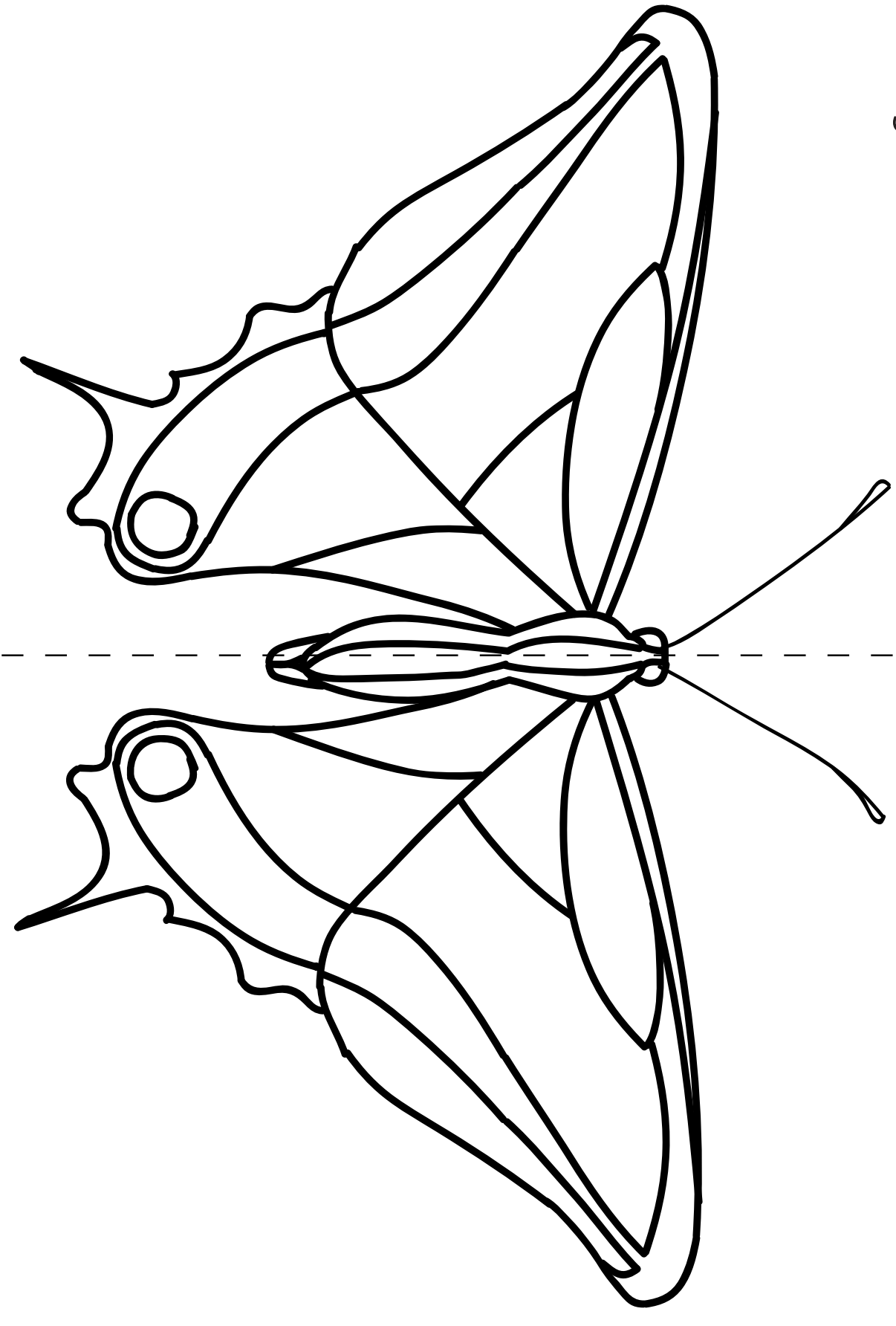
1 butterfly + 1 ant + 1 grasshopper? _____

2. What insects would you like to buy? How much would they cost?

Name _____ Date _____

MATH EXTENSION A

Investigation 5: Butterflies



Name _____ Date _____

MATH EXTENSION B

Investigation 5: Butterflies

