# Printable Math Assignment for May 6, 2020

Name _____

## Guided Practice*

### Do You Understand?

1. **Reasoning** Why are there three zeros in the product of $6 \times 10^3$?

2. Susan said that $10^5$ is 50. What mistake did Susan make? What is the correct answer?

### Do You Know How?

In **3** and **4**, complete the pattern.

3. $10^1 =$
   $10^2 =$
   $10^3 =$
   $10^4 =$

4. $7 \times 10^1 =$
   $7 \times 10^2 =$
   $7 \times 10^3 =$
   $7 \times 10^4 =$

## Independent Practice

In **5–15**, find each product. Use patterns to help.

5. $3 \times 10^1 =$
   $3 \times 10^2 =$
   $3 \times 10^3 =$
   $3 \times 10^4 =$

6. $2 \times 10 =$
   $2 \times 100 =$
   $2 \times 1{,}000 =$
   $2 \times 10{,}000 =$

7. $9 \times 10^1 =$
   $9 \times 10^2 =$
   $9 \times 10^3 =$
   $9 \times 10^4 =$

8. $8 \times 10^4$

9. $4 \times 1{,}000$

10. $5 \times 10^2$

11. $6 \times 10{,}000$

12. $4 \times 10^1$

13. $100 \times 9$

14. $10^3 \times 6$

15. $8 \times 10^5$

16. Write $10 \times 10 \times 10 \times 10 \times 10 \times 10$ with an exponent. Explain how you decided what exponent to write.

*For another example, see Set A on page 49.

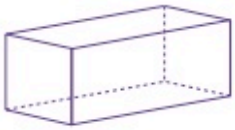
## Problem Solving

17. One box of printer paper has $3 \times 10^2$ sheets of paper. Another box has $10^3$ sheets of paper. What is the total number of sheets in both boxes?

18. **Make Sense and Persevere** A post is put every 6 feet along a fence around a rectangular field that is 42 ft long and 36 ft wide. How many posts are needed?

19. **Number Sense** A company had $9 \times 10^6$ dollars in sales last year. Explain how to find the product $9 \times 10^6$.

20. An aquarium has the same shape as the solid figure shown below. What is the name of this solid figure?



21. **Model with Math** Isaac takes 5 minutes to ride his bike down the hill to school and 10 minutes to ride up the hill from school. He attends school Monday through Friday. How many minutes does he spend biking to and from school in two weeks? Write an equation to model your work.

22. **Higher Order Thinking** Santiago hopes to buy a 4-horse trailer for about $12,000. Describe all the numbers that when rounded to the nearest hundred are 12,000.

## Assessment

23. Choose all the equations that are true.

- ☐ $10 \times 10 \times 10 \times 10 = 40$
- ☐ $10 \times 10 \times 10 \times 10 = 10^4$
- ☐ $10 \times 10 \times 10 \times 10 = 1{,}000$
- ☐ $10 \times 10 \times 10 \times 10 = 10{,}000$
- ☐ $10 \times 10 \times 10 \times 10 = 4 \times 10^4$

24. Choose all the equations that are true.

- ☐ $6 \times 10^5 = 6 \times 100{,}000$
- ☐ $6 \times 10^5 = 6 \times 10{,}000$
- ☐ $6 \times 10^5 = 600{,}000$
- ☐ $6 \times 10^5 = 60{,}000$
- ☐ $6 \times 10^5 = 650{,}000$

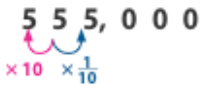
# Printable Math Assignment for May 13, 2020

Name _____

## Another Example

When two digits next to each other in a number are the same, the digit on the left has 10 times the value of the digit to its right.

When two digits next to each other are the same, the digit on the right has $\frac{1}{10}$ the value of the digit to its left.




## Guided Practice*

### Do You Understand?

1. **Construct Arguments** In 9,290, is the value of the first 9 ten times as great as the value of the second 9? Explain.

### Do You Know How?

2. Write 4,050 in expanded form.

In **3** and **4**, write the values of the given digits.

3. the 7s in 7,700
4. the 2s in 522

## Independent Practice

In **5–7**, write each number in standard form.

5. 8,000,000 + 300 + 9
6. $(4 \times 10^4) + (6 \times 10^2)$
7. 10,000 + 20 + 3

In **8–10**, write each number in expanded form.

8. 5,360
9. 102,200
10. 85,000,011

In **11–13**, write the values of the given digits.

11. the 7s in 6,778
12. the 9s in 990,250
13. the 1s in 2,011,168

*For another example, see Set B on page 49.

## Problem Solving

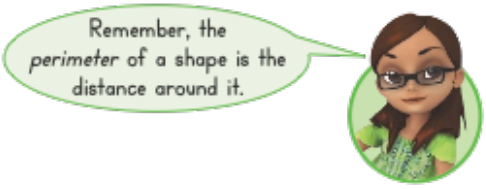
**14.** Write the number name and expanded form for the number of driver ants that could be in two colonies.

Up to 22,000,000 driver ants can live in a single colony.

**15. Math and Science** A queen ant can produce about nine million ants in her lifetime. Write this number in standard form.

**16. Critique Reasoning** Paul says that in the number 6,367, one 6 is 10 times as great as the other 6. Is he correct? Explain why or why not.

**17.** Jorge drew a square that had a side length of 8 inches. What is the perimeter of Jorge's square?




**18. Higher Order Thinking** Dan wrote $(2 \times 10^6) + (3 \times 10^4) + (5 \times 10^3) + 4$ for the expanded form of two million, three hundred fifty thousand, four. What error did he make in the expanded form? What is the standard form of the number?

## Assessment

**19.** Colleen says she is thinking of a 4-digit number in which all the digits are the same. The value of the digit in the hundreds place is 200.

**Part A**

What is the number? Explain.

**Part B**

Describe the relationship between the values of the digits in the number.

# Printable Science Assignment for May 7, 2020

## *Directions: Read the passage and answer the questions*

Bees are flying insects that feed on nectar and pollen. They are usually yellow and black and covered in fuzzy hair that makes collecting pollen easier. A bee's body is similar to that of other insects—for instance, an ant—with three major sections: the head, the middle section called the thorax, and the last section called the abdomen. The head of a bee has five eyes for seeing and two antennae for touching and smelling. Two sets of wings and three sets of legs can be found on a bee's thorax. Depending on the type of bee, the last set of legs might have little sacs that store the pollen that the bee has collected from flowers. Many types of bees have stingers. The bee stinger is the most feared part of a bee, and for good reason. Filled with poison, the stinger is a bee's protection from danger. The stingers are around 12 millimeters long. There are over 20,000 known bee species in the world. The best known is probably the honeybee.

Honeybees live in beehives, which have a distinct order that helps things run smoothly. At the bottom of the totem pole are the workers. Workers are young female bees. Some of their main duties include going out to find food (nectar and pollen), building the hive, and keeping it clean. Honeybees will travel up to eight miles if necessary to find nectar and pollen to bring back to the hive. Worker bees are actually the only bees that ever do any stinging. When this does happen, it is usually because they are trying to protect their hive from harm. A bee rarely stings when it is away from the hive, but it might sting if it senses danger. The lifespan of a worker bee is anywhere from 4 to 9 months.

The queen honeybee is the biggest bee in the hive. There is usually only one per hive, and her job is to grow the family by laying eggs that will become the next generation of honeybees. She lays over a thousand eggs per day and can live anywhere from 3 to 5 years. When the time comes for a new queen to take over, some larvae are placed in special chambers to grow queen bees. These larvae are fattened up with royal jelly, a nutritious substance that worker bees secrete. It usually takes about two weeks for a female larva to grow into a queen bee. The first female bee to become a queen bee kills the other potential queen bees.

Male honeybees are called drones. They don't have stingers, and they don't collect nectar or pollen. Their only purpose is to mate with the queen. Several hundred drones can live in a hive at one time. As the winter months approach, the males are kicked out of the hive in order to make it easier for the queen and her workers to survive. Food needs to be saved as there are fewer flowers to collect pollen and nectar from. Less food means the drones are the first ones to go!

### *Comprehension Questions*

**1.** What is a bee?

A an insect that lives near water and eats fish
B a red-and-black insect that lives under the ground
C a flying insect that collects nectar and pollen
D a crawling insect with two sets of legs and no wings

**2.** What does this passage describe?

A wings, legs, mouths, and trees
B totem poles and winter weather
C different honeybees in a beehive
D poison and measurement

**3.** Different bees in a hive have different duties. What evidence from the passage supports this statement?

A Worker bees gather food; the queen bee lays eggs.
B Bee stingers are about 12 millimeters long.
C Bees have two sets of wings and three sets of legs.
D The honeybee is probably the best known bee species.

**4.** Which bees are probably the least important bees in a beehive?

E worker bees
F the queen bee
G female bees
H drones

# Printable Science Assignment for May 14, 2020

***Directions: Read the passage and answer the questions***

Scientists are thrilled about some tiny, furry finds. They have discovered two new species of lemurs on Madagascar, an island located off the southeast coast of Africa.

The endangered animals are found only in Madagascar and a few of the country's nearby islands. Madagascar is home to some of the world's most exotic, or unusual, plants and animals. Lemurs live mainly in forest trees and are nocturnal, or active at night.

One of the newly discovered creatures has wide eyes, is small enough to fit in a hand, and bounces from tree branch to tree branch in the dark. Its name in Malagasy means "good man." Malagasy is the official language of Madagascar. The animal was named after scientist Steve Goodman. He has been studying the tiny creatures in Madagascar for 20 years. It is truly an honor to have an animal named after me," says Goodman.

The other species is a giant mouse lemur with a bushy tail. It was named in honor of Madagascar's children. Its name in Malagasy means "child." The scientists chose that name to remind Madagascar's children to care for the many plants and animals in their country.

Finding a new lemur species is rare because many of the tiny creatures have become extinct. The recent find means that there are now 49 known species of lemurs in the wild.

***Comprehension Questions***

**1.** According to the passage, how many known species of lemurs exist in the wild?

I 42
J 20
K 49
L 2

**2.** Which of the following best describes the giant mouse lemur?

E It has big ears.
F It bounces around on tree branches at night.
G It has wide eyes.
H It has a bushy tail.

**3.** Based on the passage, it is likely that

E Steve Goodman does not know a lot about lemurs
F it is difficult to find lemurs moving around during the day
G the animals found in Madagascar also live in many other countries
H scientists will find another species of lemur soon

**4.** Read the following sentence:

“Madagascar is home to some of the world's most exotic, or unusual, plants and animals.”

In this sentence the word **exotic** means

A very tropical
B very rare
C very tall
D very common

Answer

**5.** What is the central idea of this passage?

A Lemurs are very active.
B Scientists found two new species of lemurs.
C Scientists are working in Madagascar.
D Madagascar is an exotic place to visit.