

Homework 3/24/22

## Reading Homework:

### Shark Skin & Swimsuits

Adapted from [readworks.org](http://readworks.org)



A shark's skin is covered in tiny scales called denticles. Denticles, or "little skin teeth," help the shark move quickly in the water. The denticles are shaped in a way that allows water to flow past the shark. They are also rough, which makes it difficult for algae and barnacles to grow on them.

Scientists have been inspired by shark skin. They have been working to invent a swimsuit made out of artificial shark skin.

Would you want a sharkskin swimsuit? It's likely that these suits will be too expensive to afford for a while. It is also expected that these suits will be banned from major swimming competitions. It is estimated that the suits would reduce swimming time by 3 to 5 percent. This would give an unfair advantage to anyone wearing one in a race.

Scientists also believe that an artificial shark skin material would be ideal for ships. This material would allow the ship to move through water more quickly and efficiently. It would also stop any algae and barnacles from growing on the ship. As a result, the shark skin ship material would cut down on oil costs and on clean-up costs.



1. The text says that if a ship were made of artificial shark skin, it would cut down on clean-up costs. Why might this cut down on clean-up costs?

- A. Denticles would make the ship move easily through water, so it would get washed constantly.
- B. Denticles would make the ship stay cleaner, because barnacles and algae would not be able to grow on it.
- C. Denticles would produce a special kind of soap to keep the ship cleaner as it moves through the water.
- D. Denticles would help make the ship surface smoother, which would make it easier to wipe off while cleaning.

2. What is the main idea of this text?

- A. Sharks have rough skin that helps them swim fast and keeps barnacles from growing on them.
- B. Scientists are studying denticles on sharks' skin to learn more about how to swim quickly.
- C. Ships are likely to become stronger, faster, and cheaper with recent scientific developments.
- D. Scientists are developing swimsuits and ship-building material inspired by sharks' skin.

3. Please read the following sentences from the text. "Scientists also believe that an artificial shark skin material would be **ideal** for ships. This material would allow the ship to move through water more quickly and efficiently."

As used in these sentences, what does the word **ideal** mean?

- A. an idea
- B. fast
- C. strong
- D. perfect

# Writing Homework:

## Transitions

Fill in the blank with the best transition word or phrase

17

Mrs. Gomez looked everywhere for her keys, \_\_\_\_\_ she could not find them.

- a) even though
- b) but
- c) first of all



## Transitions

Fill in the blank with the best transition word or phrase

19

Sugary drinks are not good for your body. \_\_\_\_\_ soda, try drinking water or tea.

- a) Instead of
- b) Compared to
- c) Likewise



## Transitions

Fill in the blank with the best transition word or phrase

18

Baby animals often depend on their mothers. \_\_\_\_\_, baby pandas are born blind and cannot walk.

- a) For example
- b) However
- c) As a result



## Transitions

Fill in the blank with the best transition word or phrase

20

Mother bear caught fish in the river. \_\_\_\_\_, her cubs played in the water.

- a) Meanwhile
- b) As a result
- c) Most importantly



AK

## Math Homework:

1. Which shows these fractions ordered from greatest to least.

$$\frac{1}{2}, \frac{11}{9}, \frac{4}{5}$$

a. $\frac{4}{5}, \frac{11}{9}, \frac{1}{2}$	b. $\frac{1}{2}, \frac{4}{5}, \frac{11}{9}$
c. $\frac{4}{5}, \frac{1}{2}, \frac{11}{9}$	d. $\frac{11}{9}, \frac{4}{5}, \frac{1}{2}$

2. Solve for the difference of  $2\frac{7}{8}$  and  $1\frac{1}{4}$ . \*Remember all answers must be in simplest form - look at your notes\*

a. $1\frac{5}{8}$	b. $1\frac{6}{4}$
c. $3\frac{8}{12}$	d. $4\frac{1}{8}$

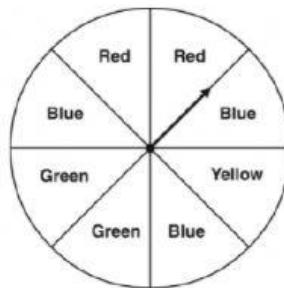
3. Alonzo made the input-output table below.

Input	6	18	24	30	36
Output	2	6	?	10	12

What is the output when the input is 24?

a. 9	b. 7
c. 8	d. 3

4. Ohm will spin the spinner once.



What is the probability that the pointer will land on a blue or red section?

a.  $\frac{1}{8}$

c.  $\frac{5}{8}$

b.  $\frac{1}{3}$

d.  $\frac{3}{5}$

## Virginia Studies Homework:

What did Virginia do when some southern states seceded?

remained part of the Union

seceded and joined the Confederacy

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Disagreements over slavery and Virginia's decision to secede led to the creation of

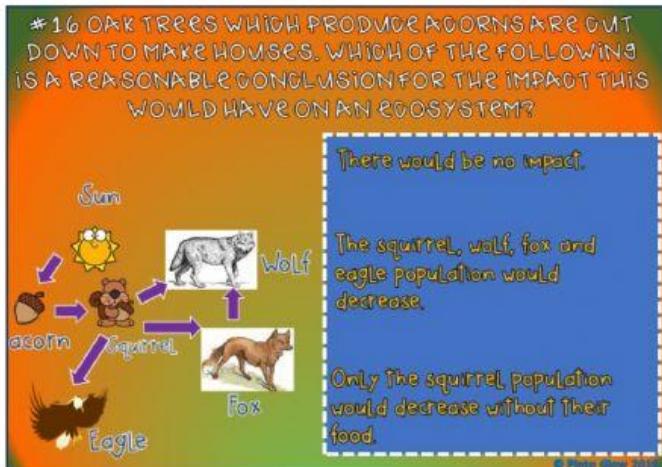
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LIVEWORKSHEETS

## Science Homework:

\*16 OAK TREES WHICH PRODUCE ACORNS ARE CUT DOWN TO MAKE HOUSES. WHICH OF THE FOLLOWING IS A REASONABLE CONCLUSION FOR THE IMPACT THIS WOULD HAVE ON AN ECOSYSTEM?

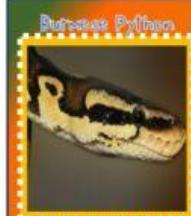


There would be no impact.

The squirrel, wolf, fox and eagle population would decrease.

Only the squirrel population would decrease without their food.

\*17 THE BURMESE PYTHON HAS A JAW THAT MUNCHES AND CAN SWALLOW ANIMALS MUCH LARGER THAN THE SNAKE. THEY CAMOUFLAGE EASILY IN THEIR HABITAT. THEY ALSO HAVE A STRONG SENSE OF SMELL TO FIND PREY. WHICH OF THESE BEST DESCRIBES THE NIQUE OF THE BURMESE PYTHON?



Hunts very small animals

Herbivore that eats plants

Hunts animals larger than them