"Ex – SPAN – D" Your Math
By Traveling Over the Chesapeake Bay!

Maggie has been reading about the two ways to drive over the Chesapeake Bay. She finds out about the William Preston Lane Jr. Memorial Bridge. This bridge spans the Bay just in Maryland. The Chesapeake Bay Bridge – Tunnel crosses the Bay in Virginia.

Help Maggie as she and Kuma decide how to cross the Chesapeake Bay.

1.   "Look, Kuma, I think it would be fun to ride over the Chesapeake Bay Bridge – Tunnel. But, maybe over is the wrong word to use. This system goes both over the water and under the water," said Maggie.

"That does sound like fun," said Kuma as he looked at the book Maggie was reading. "It says it is 17.6 miles across the Bay."

"Yes, and there are two mile long parts of road below the water," added Maggie. "I guess this lets big ships pass."

A. How many miles of road are above the water?

_____

B. What mathematical operation did you use to solve this problem?
_____?

2.   "Look, Maggie," said Kuma. "The book says one span of this bridge was opened in 1964. It cost $200,000,000 to build. Years later, another span was built. This new span was opened in 1999. It cost $250,000,000 to build."

"Wow, that's a lot of money!" exclaimed Maggie.

A. How many years passed between the opening of the first span and the second span?

_____

C. How much more did the second span cost than the first span?

_____

3.   "Many cars travel over the William Preston Lane, Jr. Bridge just outside of Annapolis, Maryland," read Maggie.

    "I think this is because there are so many great beaches along the Atlantic Ocean. People from the area like to visit these spots in the summer," said Kuma.

    "You're right," said Maggie. "The book says that 24 million vehicles crossed over this bridge in 2001."

Write the number 24 million using numerals.

_____

4.   Maggie continued reading, "I see that the William Preston Lane, Jr. Bridge was built in two parts, too. The first span was finished in 1952. It has two lanes and cost 44 million dollars."

    Kuma took the book and continued, "Another span was finished in 1973. This one has three lanes. But it cost about 117 million dollars to build!"

A. How much more did the westbound span cost to build than the eastbound span? (Use only numerals. Do not use words!)

_____

B. How many years passed between the opening of the first span and second span?

_____

5.   "Oh look, Kuma! It would be fun to go to the Bay Bridge on the first Sunday in May. In 1975 they started letting people walk over one of the spans each year. They stopped in 2005. I hope they start again. I would like to do that. You could take your time and look at the beautiful Bay waters and sailboats below."

    Kuma nodded. "I think that would make a great picture -the white sails and the blue water of the Chesapeake Bay! I think we could walk the 4.2 miles of the bridge in about an hour and twenty minutes."

If Kuma and Maggie started the Bay Bridge walk at 10:30 am, what time would they finish?

_____