Opening Presentation Questions/Riddles

The idea is to grab the attention of the students. Then make the connection between careers in cybersecurity and …

- logical thinking
- need for people who think "out of the box"
- problem solving
- recognizing patterns

Elementary School

- What is cybersecurity?
- What does cybersecurity mean to you?
- Who can tell me what cybersecurity is?
- Who can tell me what type of jobs you can do in the field of cybersecurity?
- When you think about cybersecurity, what do you think of?
- Who can give me some examples of careers or jobs in cybersecurity?
- How many of you have access to the internet from a computer?
- How many of you use a cell phone?
- How many of you have digital cable or satellite television?
- How many of you (or your siblings) have a Facebook account? Use Twitter?
- How many have parents that use ATM machines, credit cards, or debit cards?

Can you solve this riddle? [Write on board]

T M C
A U O
H S M
W T E

ANSWER: What goes up must come down

Can you solve this riddle? [Write on board]

What are the next two letters in the following series and why?
W A T N T L I T F S _ _

ANSWER: A and W.

The letters are the first letters of the words in the question. Thus, the next two letters are A and W.

Can you solve this riddle? [Write on board]
What letter is missing in this sequence?

M, A, M, J, J, A, S, O, ?

ANSWER: N for November

M: March
A: April
M: May ....and so on ...

Can you solve this riddle? [Write on board]

Can you tell us the missing number that should replace the _____ ?
37, 10, 82
29, 11, 47
96, 15, 87
42, _____, 15

ANSWER: The missing number that fit in ? is 6.

The number in the middle of each triple is the same as the digits of either end's number when added together. 3+7=10=8+2 and so on.

Can you solve this riddle? [Write on board]

Solve this logical number sequence puzzle by inserting the correct digit
8080 = 6
1357 = 0
2022 = 1
1999 = 3
6666 = ?

ANSWER: 4
No of circles in the number.

Can you solve this riddle? [Write on board]

What do the following have in common? (or what logic was used for this ordering of words)?

gun, shoe, spree, door, hive, kicks, heaven, gate, line, den

ANSWER: Each word rhymes with its numeric position in the list. (e.g. 'gun' rhymes with 'one', etc.)

Middle School

- What is cybersecurity?
- What does cybersecurity mean to you?
- Who can tell me what cybersecurity is?
- Who can tell me what type of jobs you can do in the field of cybersecurity?
- When you think about cybersecurity, what do you think of?
- Who can give me some examples of careers or jobs in cybersecurity?

Can you solve this riddle? [Write on board]

Sherlock, a detective who was close to cracking an international smuggling ring has suddenly gone missing. While inspecting his last-known location, you find a note:
710 57735 34 5508 51 7718

Currently there are three suspects: Bill, John, and Todd. Can you break the detective's code?

Answer: if you read the message upside down you'll notice that the numbers resemble letters which then form two sentences. *Bill is boss. He sells oil.*

Can you solve this riddle? [Write on board]

Decode the message

carrot fiasco nephew spring rabbit
sonata tailor bureau legacy corona
travel bikini object happen soften
picnic option waited effigy adverb
report accuse animal shriek esteem
oyster

ANSWER: Starting with the first two words, Take the first and last letters, reading from left to right. Example: Carrot fiascO "from these pairs" the message is as follows:

CONGRATULATIONS CODE BREAKER

Can you solve this riddle? [Write on board]

What number comes next in this number series.

7 8 5 5 3 4 4 ?

*Hint: check calender
ANSWER: 6 (the number of letters in the month august)

January : 7 letters
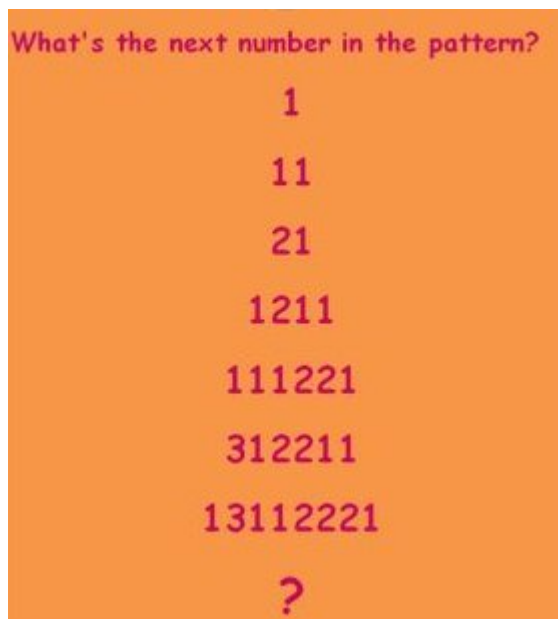February: 8 letters
March : 5 letters
April : 5 letters
May : 3 letters
June : 4 letters
July : 4 letters

Can you solve this riddle? [Write on board]

What's the next number in the pattern?

1

11

21

1211

111221

312211

13112221

?

ANSWER:
1113213211

Explanation
1
one one => 11
two one => 21
one two , one one = > 1211
one one , one two , two one => 111221
three one , two two one one => 312211
one three, one one , two two, two one =>13112221

=>one one , one three, two one, three two, one one

Can you solve this riddle? [Write on board]

Find the next number in the sequence
100 365 24 60 ?

ANSWER:
60.

100 years in a century, 365 days in a year, 24 hours in a day, 60 minutes in an hour, & 60 seconds in a minute.

Can you solve this riddle? [Write on board]

Find the next number in the sequence

77, 49, 36, 18 ?

ANSWER:
The next one is 8
77 : 7*7 = 49
49 : 4*9 = 36
36 : 3*6 = 18
18 : 1*8 = 8

High School

- What is cybersecurity?
- What does cybersecurity mean to you?
- Who can tell me what cybersecurity is?
- Who can tell me what type of jobs you can do in the field of cybersecurity?
- When you think about cybersecurity, what do you think of?
- Who can give me some examples of careers or jobs in cybersecurity?

Can you solve this riddle? [Write on board]

Luis Garavito killed Density x Volume.

Who is Luis Garavito ?

ANSWER: He was Mass Murderer.

Can you solve this riddle? [Write on board]

Can you make 10 plus 4 = 2?

ANSWER: 10 o'clock plus 4 hours = 2 o'clock

Can you solve this riddle? [Write on board]

What is the next number in this sequence, 1, 11, 21, 1211, 111221 , 312211 ?

ANSWER: Next in sequence is 13112221.

This series describes each number that came before it:
1 [One]
11 [One One]
21 [Two One(s)]
1211 [One Two and One One(s)]
111221 [One One, One Two, and Two One(s)]
312211 [Three One(s), Two Two(s), and One One]

Can you solve this riddle? [Write on board]
Identify the next two numbers in this Sequence?

101, 112, 131, 415, 161, 718, ???, ???

ANSWER: 192 021

If you look at it as two-digit numbers you'll see: 10 11 12 13 14 15 16 17 18 19 20 21

Can you solve this riddle? [Write on board]

Find the next number in the sequence

1, 2, 6, 21, 88, __?

ANSWER:
445

2=(1+1)1
6=(2+1)2
21=(6+1)3
88=(21+1)4

So 445=(88+1)5

Can you solve this riddle? [Write on board]

Complete the pyramid by replacing ? with the correct number.
1
1 1
2 1
1 2 1 1
1 1 1 2 2 1
? ? ? ? ? ?
? ? ? ? ? ? ? ?

ANSWER:
3 1 2 2 1 1
1 3 1 1 2 2 2 1

Read Line as one 1 => 1
Read Line 2 as two one => 2 1
Read Line 3 as one two and one one => 1 2 1 1
and so on.