

Byte-Sized Brain Break

Logic Activity

What weighs more: an ounce of metal or an ounce of paper?

Did you figure it out? What is it that might make this question kind of tricky? Can you use this concept to create a similar riddle to share with family and friends?

Share with us using the hashtag **#wecanjam**



youthcodejam.org
f t i y

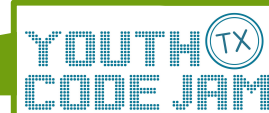
Byte-Sized Brain Break

Logic Activity

0, 3, 8, 15....

Can you find the pattern? What are the next two numbers in the sequence?

Share with us using the hashtag **#wecanjam**



youthcodejam.org
f t i y

© 2020 Youth Code Jam

Byte-Sized Brain Break

Logic Activity

I am older than my brother Milo. Milo is older than Imane but younger than Valeria. Valeria is the oldest, and Sameer is the fourth oldest. Can you order all of us from youngest to oldest?

Share with us using the hashtag **#wecanjam**



youthcodejam.org
f t i y

Byte-Sized Brain Break

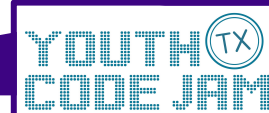
Logic Activity

Using just the numeral "4" and the four operations (+, -, /, *) I can make the number 1:

$$4 / 4 = 1$$

Can you use the numeral "4" and the four operations to get the numbers between 1 and 20?

Share with us using the hashtag **#wecanjam**



youthcodejam.org
f t i y

Byte-Sized Brain Break

Logic Activity

Knights always tell the truth, and knaves always lie. Mar is either a knight or a knave, and the same goes for Emi. Emi says, "We are both knaves". Mar says, "I am a knight". Which (if any) of them are knights? Which (if any) of them are knaves?

Share with us using the hashtag **#wecanjam**



youthcodejam.org
f t i y

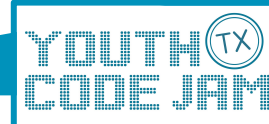
Byte-Sized Brain Break

Logic Activity

For a class field trip, each bus holds 20 kids. How many busses do you need to take 6 kids on a field trip? What about 20? What about 42?

Did you figure it out? If you used division to solve the problem, what might make it tricky?

Share with us using the hashtag **#wecanjam**



youthcodejam.org
f t i y

Byte-Sized Brain Break

Logic Activity

If you have a square, and one of the sides is 3 cm long, What is the sum of the length of all of the sides of the square? What about the sum of the length of all the edges of a cube, where one edge is 3 cm long?

Share with us using the hashtag **#wecanjam**

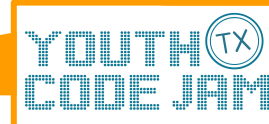


youthcodejam.org
f t i y

Byte-Sized Brain Break

Logic Activity

Create your own coding-inspired activity!
Share with us using the hashtag **#wecanjam**



youthcodejam.org
f t i y