

Task

Chichén Itzá was a Mayan city in what is now Mexico. The picture below shows El Castillo, also known as the pyramid of Kukulcán, which is a pyramid located in the ruins of Chichén Itzá.



$$\frac{24}{91} = \frac{y}{50}$$

$$24(50) = 91y$$

$$\frac{1200}{91} = \frac{91y}{91}$$

$$13.19 = y$$

The temple at the top of the pyramid is approximately 24 meters above the ground, and there are 91 steps leading up to the temple. How high above the ground would you be if you were standing on the 50th step?

$$\frac{12}{3} = \frac{x}{5}$$

$$12(5) = 3x$$

$$\frac{60}{3} = \frac{3x}{3}$$

$$20 = x$$

Task

Jessica gets her favorite shade of purple paint by mixing $\frac{1}{3}$ cup of blue paint with $\frac{1}{2}$ cup of red paint. How many cups of blue and red paint does Jessica need to make 20 cups of her favorite purple paint?