

32. The probability of visiting a website on the Internet that does NOT open properly is 0.32. If Julius wants to visit 15 websites while researching his History project, how many of those websites can he expect to open properly? Round your answer to the nearest whole number.

$$.32 \cdot 15 = 4.8$$

$$15 - 4.8 = 10.2 \rightarrow 10$$

$$1 - .32 = .68$$

$$.68 \cdot 15 = 10.2$$

$$\rightarrow 10$$

23. A group of people are parachuting off of a bridge today. The river below has a bank on each side that is 3 feet wide. The entire area is 60 feet wide and 100 feet long. What is the probability that they will land in the water and NOT on the the river bank? Round your answer to the nearest hundredth, if necessary.



$$A_{\text{total}} = 100(60) = 6000$$

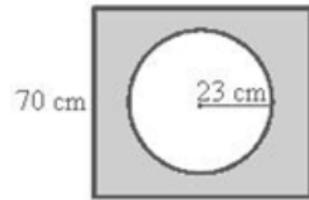
$$A_{\text{bank}} = 3(100) = 300 \times 2 = 600$$

$$6000 - 600 = \frac{5400}{6000}$$

$$\frac{5400}{6000} = .9$$

$$1 - .1 = .90$$

24. Maxine is playing darts. The dartboard, which has a radius of 23 cm, is mounted on a square board, which has a width of 70 cm. What is the probability that she will hit the square board and NOT the dartboard, if her skill level is not a factor? Round your answer to the nearest hundredth, if necessary.



$$\frac{4900 - 529\pi}{4900}$$

$$A_{sq} = 70^2 = 4900$$

$$A_{circle} = \pi(23)^2 = 529\pi$$

$$\frac{529\pi}{4900} = ?$$

$$1 - ? =$$

12. Saul takes a fair coin out of his pocket and flips it 2,500 times. He records 1,277 as the number of times the coin landed heads up. If the theoretical probability of this experiment is 0.5000, what is the difference between his experimental probability and the theoretical probability of landing on heads when flipping a coin?

$$\frac{\text{exp}}{1277} - \frac{\text{theory}}{.5} = \text{Oval}$$