

Target 1 If $f(x) = \frac{3x-2}{x-2}$, what is the value of $f(-2) + f(-1) + f(0)$? Express your answer as a common fraction.

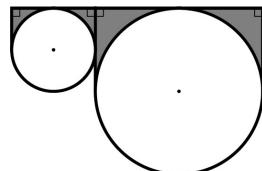
Target 2 Toby decided to use his average cost for utilities last year to project his expenses for the future. Last year, he spent an average of \$216 per month on utilities, but he anticipates a 5% increase in the annual cost of utilities. Based on this information, how much should he expect to pay for utilities each month this year?

Target 3 Marc left 280 acres of land to be divided among his children Sophie and Nate in the ratio 4:3, respectively. How many acres should Sophie receive?

Target 4 A 1/2-mile long train enters a 2-mile long tunnel traveling at a speed of 10 mi/h. How many minutes pass from the time the front of the first train car enters the tunnel until the rear of the last train car exits the tunnel?

Target 5 Greg and Heidi each toss a tetrahedral die with faces numbered 1 through 4, and then multiply the two resulting numbers. If the product is less than 9, Greg wins; otherwise, Heidi wins. What is the probability that Heidi will win? Express your answer as a common fraction.

Target 6 In the figure shown, the smaller circle has a radius of 2 feet and the larger circle has a radius of 4 feet. What is the total area of the four shaded regions? Express your answer as a decimal to the nearest hundredth.



Target 7 Given that $-3 \leq x \leq 2$ and $20x^2 = y - 24$, what is the least possible value for y ?

Target 8 An ammonia and water mixture fills a five-gallon container. Eighty percent of the mixture is ammonia, but some of the mixture will be drained and replaced with pure water. If a five-gallon mixture of fifty percent ammonia is desired, how many quarts of the mixture need to be drained before the water is added, given that 4 quarts equals a gallon? Express your answer as a decimal to the nearest tenth.