



5-26. Solve the following equations for the given variable, if possible. Remember to check your answers.

a. $6x^2 = 150$

b. $4m + 3 - m = 3(m + 1)$

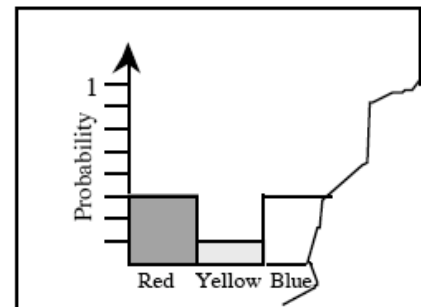
c. $\sqrt{5x - 1} = 3$

d. $(k - 4)^2 = -3$

5-27. Mervin and Leela are in bumper cars. They are at opposite ends of a 100 meter track heading toward each other. If Mervin moves at a rate of 5.5 meters per second and Leela moves at a rate of 3.2 meters per second, how long does it take for them to collide?

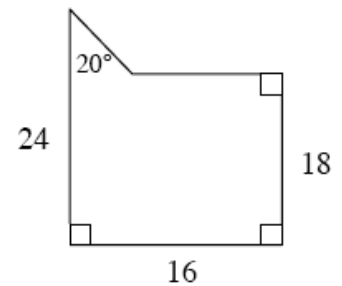
5-28. Donnell has a bar graph which shows the probability of a colored section coming up on a spinner, but part of the graph has been ripped off.

- What is the probability of spinning red?
- What is the probability of spinning yellow?
- What is the probability of spinning blue?



- If there is only one color missing from the graph, namely green, what is the probability of spinning green? Why?

- 5-29. Find the area and the perimeter of the figure at right. Be sure to organize your work so you can explain your method later.



- 5-30. While playing a board game, Mimi noticed that she could roll the dice 8 times in 30 seconds. How many minutes should it take her to roll the dice 150 times?