

Name: _____

Date: _____ Per: _____

Lesson 5.2.1 Homework

5-29. Find the probability of each event. Write your answer as a fraction and as a percent.

- a. Drawing a diamond from a standard deck of cards.
- b. Rolling a number less than five on a standard number cube.
- c. Drawing a blue marble from a bag of 18 marbles, three of which are blue.

5-30. Imagine a standard deck of cards with all of the aces and twos removed. Find each probability below.

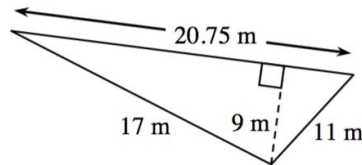
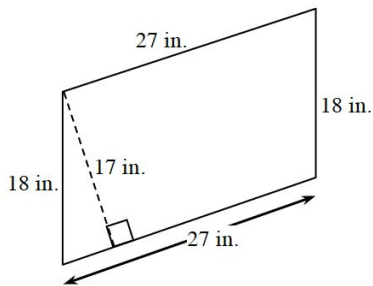
- a. $P(\text{heart})$
- b. $P(\text{black})$
- c. $P(\text{face card})$
- d. How is the $P(\text{face card})$ different with this deck from the probability if the deck was not missing any cards? Which probability is greater? Why?
- e. $P(\text{not heart})$

5-31. The Kennedy High School cross-country running team ran the following distances in recent practices.

3.5 miles, 2.5 miles, 4 miles, 3.25 miles, 3 miles, 4 miles, and 6 miles.

Find the mean and median of the team's distances.

5-32. Find the area of each figure below.



5-33. Evaluate the following expressions using the Order of Operations.

- a. $3(8 - 4) + 4^2 - (2 + 3)$
- b. $7 \cdot 4 - 3 \cdot 8 + 2^2 - 6$
- c. $7 - (-3) + (-4 + 3)$
- d. $-6 - 4(3 \cdot 2) + 5^2$