

1. On December 17, 1903, at Kitty Hawk, N.C., the 1903 Wright Flyer became the first powered, heavier-than-air machine to achieve controlled, sustained flight with a pilot aboard.

1. _____

December 17, 1903 Flights

	Pilot	Time in Flight	Distance
First Flight	Orville Wright	12 seconds	37 meters
Longest Flight	Wilbur Wright	59 seconds	260 meters

The average speed for the first flight was x meters per second. The average speed for the longest flight was y meters per second. What is the average of x and y ? Express your answer as a decimal to the nearest tenth.

2. Square A has a perimeter of 24 cm. Square B has an area equal to one-fourth the area of square A. What is the perimeter of square B?

2. _____ centimeters



3. Emma had just been given some coins by her parents. On the way to school she lost exactly half of them, and then by retracing her steps she found exactly four-fifths of the coins she had lost. What fraction of the coins that she received from her parents were still missing after Emma retraced her steps? Express your answer as a common fraction.



3. _____

4. Maria paid \$600 for her computer. One day she sold it to one of her friends for \$700. A month later she bought back her computer from her friend for \$800. A week later she sold it for \$900. What was Maria's total profit?



4. \$ _____

5. Bill, Phil and Jenny are siblings. Bill is twice as old as Phil. Jenny is two years younger than Bill. Currently, their dad is twice as old as the sum of their ages. In nine years, Dad's new age will be equal to the sum of his three kids' new ages. What is Jenny's current age?

5. _____ years

6. In how many different ways can four students stand in a straight line if two of the students refuse to stand next to each other?

6. _____ ways

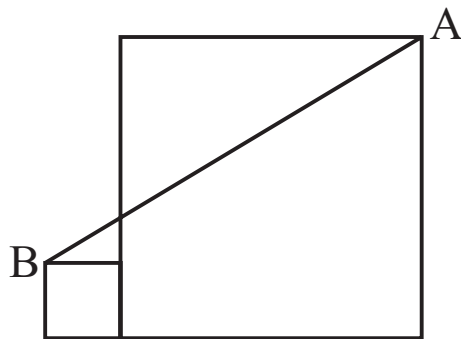


7. A circular ceiling fan rotates at a constant speed of 80 revolutions per minute. A point halfway between the center of the fan and the outer edge of the fan travels 97,968 inches in 15 minutes. How far does a point on the outer edge of the fan travel in 30 minutes?



7. _____ inches

8. The smaller square in the figure below has a perimeter of 4 cm, and the larger square has an area of 16 cm^2 . What is the distance from point A to point B? Express your answer as a decimal to the nearest tenth.



8. _____ centimeters