



Questions

Grades 4 - 6

94. It takes Sophia 15 minutes to walk from her home to where her bike is being repaired. It takes her only 5 minutes to ride home. She lives $\frac{3}{4}$ of a mile from the bike store. If Sophia were to ride her bike for 1 hour at that rate she would ride _____ miles.
95. Laura and Rebecca had a race. Rebecca was given a 30-yard headstart (Laura 30 yards behind the starting line). When Laura crossed the finish line, Rebecca had run 150 yards and was 15 yards behind Laura. How many yards did Laura run?
96. Three open switches are in a row: $_ x _$, $_ y _$, $_ z _$
z can be opened or closed at will. y can be opened or closed only if z is closed. x can be opened or closed only if y is closed and z is open. If all 3 switches are open, then what will be the fewest number of switch changes to get all three in closed positions?
97. Al, Bob, Carl and Don are on swings side by side. They start off together but go at different speeds. Al crosses the beginning point 20 times a minute, Bob 12 times a minute, Carl 4 times a minute and Don 8 times a minute. During the 1st minute after they start swinging, all four boys were together at the "starting point" exactly _____ times?
98. How many whole numbers between 200 and 699 have no digits repeated within the number?
99. Starting with the counting numbers from 1 to 103 eliminate all those divisible by 5. Add 1 to each remaining number and again eliminate those divisible by 5. Once again add 1 to each remaining number and eliminate all those divisible by 5. How many numbers remain?



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