Warm-Up 1

1. _____ What is the value of $1 + 2 + 3 + \dots + 7 + 8 + 9 + 8 + 7 + \dots + 3 + 2 + 1$, where all of the integers from 1 through 9 and then back down to 1 are added together?
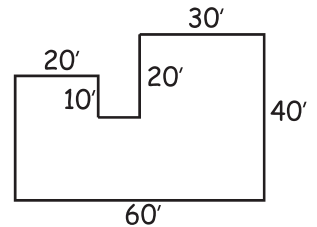
2. _____ What is the value of $(2x + 5)^2$ when $x = 3$?

3. _____ feet A toy car travels one foot in 10 seconds. At this rate, how far will the car travel in two minutes?
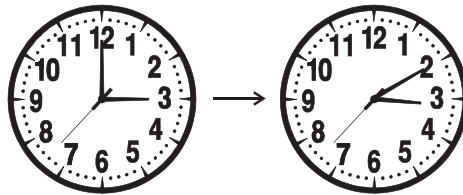
4. _____ Place one member of the set {1, 2, 3, 4} into each blank in the expression
__ (__ + __) + __ , such that each member of the set is used exactly once and the value of the expression is as small as possible. What is the value of the expression?

5. _____ sq ft The floor plan for a single-story house is shown. Each pair of consecutive sides is perpendicular. What is the area of the floor for the house whose dimensions are given?

6. _____ degrees How many degrees does the minute hand of a clock move during a 10-minute period?

7. _____ cups A recipe uses two eggs, three cups of flour and some other ingredients. The recipe makes enough batter for six servings. How many cups of flour will be needed to make enough batter for 10 servings?

8. $ _____ Aaron worked 10 hours per week for six weeks at his part-time office job, where he earned $8 per hour. He also worked full-time at his regular job, earning $400 per week. What were Aaron's total earnings for the six-week period?

9. _____ kg A science workbook is one centimeter thick and weighs 75 grams. How much will a one-meter-high stack of these workbooks weigh, in kilograms? Express your answer as a decimal to the nearest tenth.

10. _____ years Three years ago Mary was three times as old as her sister. Now Mary is twice as old as her sister. How old is Mary now?