

## As The Clock Ticks

The workers at Clockworks Incorporated work hard each day. Solve the problems below to learn more about each employee's working hours.



1. Allen begins assembling dials at 8:15 A.M. If he stops for two 15-minute breaks, takes an hour for lunch, and leaves work at 4 P.M., how long has he worked? \_\_\_\_\_
2. Elaine's job is testing the chimes. After arriving at 9 A.M., she works steadily until noon. After an hour for lunch, she works until 4:45 P.M. Does Elaine work longer than Allen? \_\_\_\_\_ If so, how much longer? \_\_\_\_\_
3. Bob's job is testing the alarms on alarm clocks. If he's worked for 4  $\frac{1}{2}$  hours by noon, what time does he start work? \_\_\_\_\_
4. Sue works part-time putting glass covers on clock faces. How many hours does she work each week if she works Monday, Wednesday, and Friday mornings from 8:30 until 11:30, and Tuesday and Thursday afternoons from 1:30 until 4:30? \_\_\_\_\_
5. Stan's job is putting the weights in grandfather clocks. If he works eight hours, starting at 7:45 A.M. and taking one 15-minute break and an hour for lunch, what time does he leave work? \_\_\_\_\_
6. Pam hangs the pendulums in grandfather clocks beginning at 7:45 A.M. If she works 2  $\frac{1}{2}$  hours before taking a break, what time is her break? \_\_\_\_\_
7. Hank puts the batteries in battery-powered clocks. If he works 4 hours 15 minutes more after his lunch ends at 12:45, what time is it when he goes home? \_\_\_\_\_
8. Michelle tests the springs in spring-driven clocks. What time does she arrive at work if she leaves at 5 P.M. after an eight-hour day? \_\_\_\_\_
9. Andy works in the stockroom from 9 A.M. until 11:45 A.M. each day, and on the loading docks from 1 P.M. until 3:30. Where does he spend more of his time? \_\_\_\_\_
10. Amy puts the electronic chips in clock mechanisms. What time is her lunch break if she takes it exactly 2 hours 45 minutes after her 9:45 A.M. morning break? \_\_\_\_\_
11. Brad checks the quality of the cuckoo clocks. If he takes a break 3  $\frac{1}{2}$  hours after he arrives at 7:15 A.M. and again 1 hour 45 minutes before he leaves at 4:30, what time are his breaks? \_\_\_\_\_ and \_\_\_\_\_
12. Doug works three afternoons each week oiling the clocks' gear mechanisms. If he works three hours per day and leaves at 6:45 P.M., what time does he start work? \_\_\_\_\_

**Bonus Box:** Who works more hours per week, Sue or Andy?