



# Gordon Burgin's Puzzles

## October 2020 challenge

### MIND-Xpanders

1. What is the number of degrees that the hour hand of a clock moves through between noon and 4:30 in the afternoon of the same day?
2. Raeanne takes 20 minutes to jog around the race track course once, and 25 minutes to jog around a second time. What is her average speed in miles per hour for the whole jog if the course is 3 miles long?
3. Two equal circles are cut out of a rectangular paper card of dimensions 8 cm by 16 cm. The circles have a maximum radius possible. What is the area of the paper remaining (shaded area) after the circles have been cut out as shown? (note: use  $\pi = 3.14$ )

