



# Workout 2

151. \_\_\_\_\_ What is the sum of two consecutive positive integers whose squares differ by 45?

152. \_\_\_\_\_ seconds If light from the sun travels at 186,282 mi/s, how many seconds does it take that light to reach Earth from the sun when they are 93.141 million miles apart?

**Balloon Altitude** (feet)

153. \_\_\_\_\_ minutes

Time	Balloon #1	Balloon #2
12:00	3600	4000
12:02	3630	3980
12:04	3660	3960
12:06	3690	3940

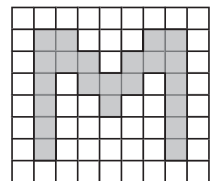
At noon, one hot-air balloon is rising as another is falling, each at a constant rate. The table shows the altitude of each balloon at various times. If the balloons continue to rise and fall at these constant rates, how many minutes after noon will the two balloons be at the same altitude?

154. \_\_\_\_\_ What is the value of  $\frac{7}{10}$  of 7%? Express your answer as a decimal to the nearest thousandth.

155. \_\_\_\_\_ The sum of three distinct primes is 40. What is their product?

156. \_\_\_\_\_ meters A caterpillar travels 4.8 mm in one second. At this rate, how many meters will it travel in one hour? Express your answer as a decimal to the nearest tenth.

157. \_\_\_\_\_ In the  $9 \times 8$  grid of unit squares shown, what is the ratio of the shaded area to the unshaded area? Express your answer as a decimal to the nearest hundredth.



158. \_\_\_\_\_ Kyle subtracts a number from 27 and then multiplies the result by 8. If the product equals the number Kyle first subtracted, what is that number?

159. \_\_\_\_\_ students

$$1 \diamond 2 \diamond 3 \diamond 4$$

How many unique values result when each  $\diamond$  is replaced by either  $+$  or  $\times$  in the expression shown?

160. \_\_\_\_\_ The fourth term of an arithmetic sequence is 3, and the ninth term is 23. What is the first term of this sequence?