Calculate Gravity

Experiment:

Time the ball drop 3 times record time
(dependent variable)

T1 = ________________________ seconds
T2 = ________________________ seconds
T3 = ________________________ seconds

Calculate the sum (S) of the three times:

S = T1 + T2 + T3 = ________________________ seconds

Calculate the average (A) time it takes the ball to drop:

A = S/3 = ________________________ seconds

Calculate the gravitational constant (g):

Numerator n = 2 x 5 = ________________________ feet

Denominator d = A x A = ________________________ sec²

\[ g = \frac{n}{d} = \frac{2 \times 5}{A^2} \text{ft/sec}^2 \]