

ANSWERS

Summation: Do the following problems given the random variables X and Y.

X: 3, 4, 1, 2, 5

Y: 2, 1, 0, 1, -3

(1) $\sum X = 15$

(2) $\sum X^2 = 55$

(3) $(\sum X)^2 = 225$

(4) $\sum (X-2) = 5$

(5) $\sum X - 2 = 13$

(6) $\sum (X-Y) = 14$

(7) $\sum \frac{(x-3)^2}{4} = 2.5$

(8) $\sum XY = -3$

(9) $\sum X \cdot \sum Y = 15$

(10) $\sum y + (\sum y)^2 + \sum y^2 = 1 + 1 + 15 = 17$

ROUNDING: Do the following problems

(1) Off:nearest tenth 17.8974 ≈ 17.9

(2) Off:nearest integer 8.53432 ≈ 9

(3) Up:nearest thousandth 34.2345628 ≈ 34.235

(4) Up:nearest integer 9.0012312 ≈ 10

(5) Off:nearest ten-thousandth $(1.234567 + 2.12312) \approx 3.3577$

(6) Up:nearest hundredth 0.23567123 ≈ 0.24

(7) Up:nearest tenth 0.10181320 ≈ 0.2

(8) Off:nearest whole number 0.56456 ≈ 1

(9) Off:nearest hundredth $2/3 \approx 0.67$

(10) Off:nearest hundredth $1/7 \approx 0.14$

(11) Up:nearest hundredth $1/7 \approx 0.15$

PERCENTS: Fill in the missing value in one column.

	Real Number	Percent
(1)	<u>0.1546</u>	<u>15.46 %</u>
(2)	<u>0.453</u>	<u>45.3%</u>
(3)	<u>0.20</u>	<u>20 %</u>
(4)	<u>0.30</u>	<u>30%</u>
(5)	<u>0.05</u>	<u>5 %</u>
(6)	<u>0.20</u>	<u>Twenty Percent</u>
(7)	<u>1/3</u>	<u>33.3%</u>
(8)	<u>2/3</u>	<u>66.67%</u>
(9)	<u>4/5</u>	<u>80 %</u>
(10)	<u>0.03</u>	<u>Three Percent</u>