

Name:

Date:

1. State whether each of the following variables is discrete or continuous.

Would each bar in a graph represent a value or a range of values?

- a) weight of a puppy
- b) number of females in a litter
- c) distance to work
- d) brand of phone
- e) iPhone capacity
- f) whether phone is on or off

2. Give the probability distribution for each of the following. Estimate if necessary.

Make sure every possibility is listed and the total of all probabilities is 100%.

- a) a coin flip
- b) which period a SVHS senior takes math

3. A spinner is 60% white, 35% blue, and 5% purple. You win \$40 for a blue spin or \$100 for a white spin. Calculate μ and σ for the spinner.

<u>Event</u>	<u>x</u>	<u>P(x)</u>	<u>xP(x)</u>	<u>x - μ</u>	<u>(x - μ)²</u>	<u>P(x)(x - μ)²</u>
white	0	_____	_____	_____	_____	_____
blue	40	_____	_____	_____	_____	_____
purple	_____	_____	_____	_____	_____	_____

$\Sigma P(x) = 1$ $\mu = \Sigma xP(x) =$ _____

$\sigma^2 = \Sigma P(x)(x - \mu)^2 =$ _____

$\sigma =$ _____