

6. Change the list to two digit numbers:

72 74 91 33 47 65 03 02 61 28 49 06 72 79 04 49 95 37 46 74 94 51 71 33 17

Cross out any that are over 45:

~~72 74 91~~ 33 ~~47 65~~ 03 02 ~~61 28 49~~ 06 ~~72 79~~ 04 ~~49 95~~ 37 46 ~~74 94 51 71~~ 33 17

Since it asked for 3, choose the first 3 available numbers, so volunteers numbers 33, 3 and 2 will be chosen.

10. $.05 * 1000 + .95 * 1 = 50 + .95 = \50.95

14. $.25 * 10 + .75 * (-5) = 2.5 - 3.75 = -1.25$ This means that the expectation is that the stock will drop \$1.25, so no, you should not buy the stock.

18. a. Stock ABC = $.4 * (-25) + .15 * 5 + .45 * 45 = (-10) + .75 + 20.25 = +\11.00

Stock JKL = $.15 * (-25) + .65 * 5 + .20 * 45 = (-3.75) + 3.25 + 9 = +\8.50

Stock MNO = $.05 * (-25) + .80 * 5 + .15 * 45 = (-1.25) + 4 + 6.75 = +\9.50

b. (answers will vary)

c. (answers will vary)

d. Usually, the higher the expected value, the riskier the stock.

20. The opposite congruent pair of angles could be either the 50s or the 80s. If its the 50s, then the missing angle would be 180, meaning the kite would only have 3 sides. This does not make sense, so if the opposite congruent pair of angles are 80s, then the missing angle would be 150, so answer C.

24. $(x - 3)^2 + (y + 5)^2 = 81$