## Bellwork Alg 2 Friday, May 31, 2109

1. Use the results of a survey shown below to find each probability as a fraction without reducing.

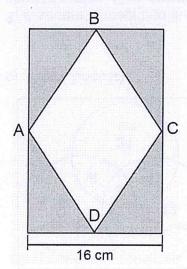
	Basketball	Football	Hockey	Baseball	Total
MSU	19	43	6	11	79
UofM	30	18	14	21	83
Total	49	61	20	32	162

- a) P(MSU or Hockey)
- b) P( UofM | Football)
- c) P(Basketball and UofM)

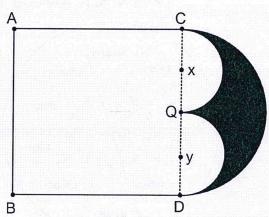
d) P(Baseball | MSU)

e) P(Hockey or Football)

2. Find the probability that a randomly chosen point in the rectangle lies in the shaded region. Give answer as a percent rounded to a hundredth. Sides of Rhombus ABCD are 17 cm.



3. The composite figure shown is formed by Square ABCD and a semicircle with center Q. Points x and y are also centers of semicircles. The perimeter of ABCD is 48 in. Find the probability that a point in the figure picked at random lies in the shaded region. Give answer as a percent rounded to a hundredth.



## Bellwork

Alg 2

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AnswERS

1. Use the results of a survey shown below to find each probability as a fraction without reducing.

	Basketball	Football	Hockey	Baseball	Total
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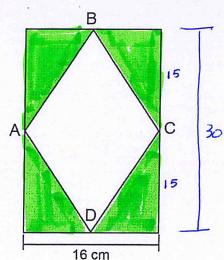
$$=\frac{93}{162}$$

d) P(Baseball | MSU)

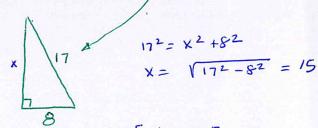
$$=\frac{11}{79}$$

$$=\frac{81}{162}$$

2. Find the probability that a randomly chosen point in the rectangle lies in the shaded region. Give answer as a percent rounded to a hundredth. Sides of Rhombus ABCD are 17 cm.



EACH GREEN A



AREA OF A Green D'S =  $4[\frac{1}{2}(8)(15)] = 240$ AREA OF RECTANGLE = (16)(30) = 480

3. The composite figure shown is formed by Square ABCD and a semicircle with center Q. Points x and y are also centers of semicircles. The perimeter of ABCD is 48 in. Find the probability that a point in the figure picked at random lies in the shaded region. Give answer as a percent rounded to a hundredth.

