2011 Iowa State FFA Meat Judging Contest – Key

A. Ground Beef Formulation Problem

65% lean trim	35%	5%	5/20=25% x 1500=	375 lbs. 65% lean trim
bull meat	15%	20% <u>15%</u> 20%	15/20=75% x 1500=	<u>1125 lbs.</u> bull meat 1500 lbs. ground beef
375 <u>x 1.13</u> 423.75 +	1125 <u>x 2.00</u> 2250.00 =	\$2673.75/15	500 = \$1.78 per lb. x 25	5% markup - \$2.23 per lb.
boneless chuck	26%	5%	5/11-45 45% × 1500	=682 lbs. boneless chuck
DUILEIESS CHUCK		20%	J/11-7J.7J /0 X 1500	
bull meat	15%	<u>6%</u> 11%	6/11=54.55 x 1500=	<u>818 lbs.</u> bull meat 1500 lbs. ground beef
682 <u>x 1.89</u> 1288.98 +	818 <u>x 2.00</u> 1636.00 =	= \$2924.98/1	.500 = \$1.95	

65% lean trim	35%	5%	5/20=25% x 1500=375 lbs. 65% lean trim
	20%	, D	
beef heart	15%	<u>15%</u>	15/20=75% x 1500= <u>1125 lbs.</u> beef heart
		20%	1500 lbs. ground beef
375	1125		
<u>x 1.13</u>	<u>x 0.71</u>		
423.75 +	798.75 = \$	51222.50/	/1500 = \$0.82 per lb.

Answers:

1. C. 65% lean trim and bull meat

2. A. 375 lbs. and 1125 lbs.

3. B. \$1.78

4. B. \$2.23

5. B. be labeled as ground beef

- B. Beef Carcass Pricing Problem
 - 1. 1275 lb. live wt. x 61% DP = 777.75 lb. hot carcass weight; yes, carcass weights are acceptable
 - 2. Base price is \$160.35/cwt

+ 3.90/cwt because of Ch+ or Ch^o premium
+ 3.40/cwt because of YG 2
\$167.65/cwt

3. Base price is \$160.35/cwt <u>- 3.00/cwt</u> because of Se \$157.35/cwt

4.	75 head YG2 = 30% of lot	% of total lot	price
	High Choice $160.35 + 3.40 + 3.90 = 167.65	x 15% =	\$25.15
	Low Choice $160.35 + 3.40 + 0 = 163.75$	x 7.5% =	\$12.28
	Select $160.35 + 3.40 - 3.00 = 160.75$	x 7.5% =	\$12.06
	175 head YG3 = 70% of lot High Choice $160.35 + 3.90 = 164.25$ Low Choice $160.35 + 0 = 160.35$ Select $160.35 - 3.00 = 157.35$	% of total lot x35% = x17.5% = x17.5% =	price \$57.49 \$28.06 <u>\$27.54</u> \$162.58

5. B. decrease the percentage of Select Yield Grade 3 carcasses