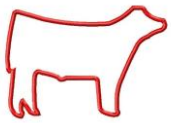
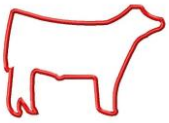
Example 1: Quality Assurance – Individual

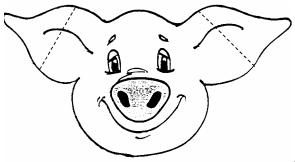
Use the available medicine labels to answer the following questions:

1	**PRODUCT A:** What is the name of the chemical compound in the product?	
2	**PRODUCT A:** Is refrigeration required for this product (yes/no)?	
3	**PRODUCT A:** What is the recommended dosage for beef cattle?	
4	**PRODUCT A:** If you had a steer that weighs 950 lbs, how much of this product would you give the steer?	
5	**PRODUCT A:** What is the mode of administration?	
6	**PRODUCT A:** If you give the product today, when can the steer go to harvest?	
7	**PRODUCT A:** How long will the product be viable following first puncture and use?	
8	**PRODUCT A:** On the image – mark with an "X", where the product should be administered.	
9	**PRODUCT B:** Is refrigeration required for this product (yes/no)?	
10	**PRODUCT B:** What is the recommended dosage for beef cattle?	
11	**PRODUCT B:** If you had a steer that weighs 600 lbs, how much of this product would you give the steer?	
12	**PRODUCT B:** If you give the product today, when can the steer go to harvest?	
13	**PRODUCT B:** What is the mode of administration?	

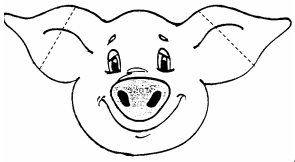
14	**PRODUCT B:** How long will the product be viable following first puncture and use?		
15	**PRODUCT B:** On the image – mark with an "X", where the product should be administered.		
16	Which of the products would be considered a "preventative" for bovine respiratory disease (CIRCLE ONE)	A	B
17	Which of the products would be considered a "treatment" for bovine respiratory disease (CIRCLE ONE)	A	B
18	Which of the products is a "modified live" product (CIRCLE ONE)	A	B
19	Can **PRODUCT A** be used in swine without a veterinarian's approval? (CIRCLE ONE)	YES	NO
20	Can **PRODUCT B** be give to pregnant cows without a veterinarian's approval? (CIRCLE ONE)	YES	NO

Example 2: **Individual Quality Assurance Exercise**

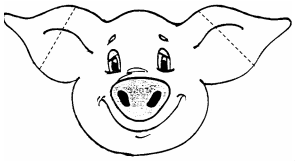
Using the Ivomec label and the information given for each pig decide if the animals should be held or sold. If they are to be held, please indicate the hold date and time in which they can be sold. Sell date is today's date, November 13, 2006.



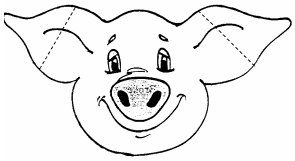
Animal #1 Injected on November 3 at 10 a.m.
Hold or Sell_____
If Hold – Date & Time Can Sell_____



Animal #2 Injected on October 18 at 8 a.m.
Hold or Sell_____
If Hold – Date & Time Can Sell_____



Animal #3 Injected on October 30 at 1 p.m.
Hold or Sell_____
If Hold – Date & Time Can Sell_____



Animal #4 Injected on November 1 at 9 a.m.
Hold or Sell_____
If Hold – Date & Time Can Sell_____

Fill in the blanks of the story using the following terms and the Ivomec Label.

Susan is in her 4th year in 4-H and her mom and dad are finally going to let her give a shot to her project _____. Susan bought project pigs from a sale and brought them home to their farm. What precautions should Susan make for these new pigs? _____ for at least ____ days. Change _____ and _____ before coming home. The active ingredient in this product is _____. Ivomec effectively controls lungworm, lice, _____, and _____. It is considered an _____. The pigs that will be injected weigh 55 lbs. She injected ____mL per pig which had _____mg of ivermectin. She selected a _____ gauge needle that was _____ in length and administered it _____(how) and _____(location). After injecting her pigs, Susan put the needle in a ___ _____. Susan entered the ear notch and amount administered in a treatment _____. This product has ____ days of withdrawal, is not for use in _____ and is made by _____. The _____ agency is responsible for regulating animal health products. The _____ agency will check at the packing house if Susan followed the withdrawal time. If Susan decided to give more than the recommended label amount it would be an _____ use.

2.7	14 gauge	FDA	Ivermectin	Sharp's container
2.75	15-30	Feed	Ivomec	Sheep
2.8	18 gauge	FSIS	Mange mites	Shoes
5	5/8 inch	Goats	Mice	Squareworms
7.4	Avermectins	Group	Off label	Subcutaneous
7.425	Beef	Injectable	Over the counter	Trash can
7.5	Book	Interperitol	Pigs	Water
60	Clothes	Intramuscular	Prescription	
½ inch	Diary	Intranasal	Record	
1 inch	EPA	Intravenous	Roundworms	
10 gauge	Extra label	Isolate	Rubbermaid container	

Example 3: Individual Quality Assurance

Sammy Southdown manages a farm flock of about 250 ewes. The primary product is project lambs for youth to show, but Sammy also finishes out approximately 80 lambs and markets the carcasses locally. Sammy prides himself on raising a safe, consistent meat product and is seeking your help in making sure he continues to do.

Sammy has realized that he has an incomplete treatment record and asks you to help him fill in the blanks. Help him determine which medicine to use for each situation and complete the treatment record below (withdrawal period and the date withdrawal is completed).

Treatment Date	**Animal ID**	**Condition/ Symptoms**	**Treatment given (fill in the amount and route given)**	**Estimated Weight**	**Person who administered**	**Withdrawal Period**	**Date Withdrawal Complete**
11/13/16	#1654 wether lamb	Respiratory Issues		85 lbs	Sammy Southdown		
11/11/16	#1644 ewe lamb	Respiratory issues		125 lbs	Sammy Southdown		
10/18/16	#1699 wether lamb	Parasite load		90 lbs	Sammy Southdown		
10/18/16	#1477 mature ewe	Just lambed, no milk		180 lbs	Sammy Southdown		

Sammy wants to know what is the active ingredient in each of the products presented?

Product A:

Product B:

Product C:

Sammy also has some questions about the Veterinary Feed Directive (VFD). Can you help answer his questions by circling the correct answers?

When does the VFD go into effect?

A. June 1, 2016

B. January 1, 2017

C. June 1, 2017

D. January 1, 2018

The purpose of the VFD is to do which of the following?

A. To eliminate the use of antibiotics in food animal production

B. To reduce respiratory illness in livestock

C. To improve judicious use of antibiotics in food animal production