

QUIZBOWL



SENIOR QUIZBOWL

Breeding

1. Boar A has Backfat EPD of (-.01). Boar B has a Backfat EPD of (-.08). Which boar would be expected to sire leaner pigs?

Boar B

2. Fresh liquid boar semen should be stored at _____ degrees F.

About 65 degrees. Accept answers between 55 - 70 degrees.

3. How many billion sperm cells are typically present in a bottle of diluted, fresh, liquid boar semen? 500, 5 million, or 5 billion?

About 5 billion (3-6 billion).

4. What is the national average of pigs weaned per litter?

About 9.0. Accept any answer between 8.5 - 9.5.

5. Movement or transfer of piglets from one sow to another is called _____.

Cross-fostering.

6. Producers give baby pigs an injection to prevent a deficiency of this important mineral. What is the mineral?

Iron

7. Why should gilts be mated on their second or third estrous (heat) rather than their first estrous?

Litter size increases.

8. Would you expect gestating sows to require more or less feed each day than a sow nursing a litter?

Less. Gestating sows normally eat 4-6 lbs. per day. Lactating sows 10-20 lbs. per day.

9. True or False. Isolation is the process of immunizing incoming breeding stock to match the health status of the sow herd.

False. Isolation refers to isolating incoming animals prior to introducing them into the herd.

10. When selecting boars to sire only market hogs, which performance index would you base your selection on: terminal sire index or maternal line index?

Terminal sire index

11. Name the swine breed that originated in Pennsylvania.

Chester White

12. Name the breed of swine that was developed in Belgium and Germany that is known for its extreme muscling and leanness. Many red or black crossbred offspring of this breed have a characteristic blaze on their face.

Pietrain

13. How many doses of semen could be prepared from an ejaculate containing 50 billion sperm cells if you wanted 5 billion sperm cells per dose?

Ten

13. True or False. Herefords are a breed of swine.

True. They are marked much like Hereford cattle.

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14. True or False. If properly processed and stored, fresh boar semen remains viable for periods as long as two months.
False. For best conception rates, should be used within 3-7 days.
15. True or False. The duration of estrus (heat) in gilts is usually longer than that of sows.
False. Gilts 12-36 hours, sows 24-60 hours.
16. What kind of waves are used to create a real-time ultrasound image? Sound, heat, or light?
Sound waves.
17. Name two behavioral signs that a sow is nearing farrowing.
Restlessness, getting up and down a lot, pawing/nest building, chewing straw, expression of milk, straining.
18. During artificial insemination of sows, semen should be deposited in the _____.
Cervix
19. What is the name given to the breed that looks like a Yorkshire, but is of European origin?
Large White
20. Name one way to confirm pregnancy in a sow.
Absence of heat approximately 3 weeks after breeding, use of an electronic pregnancy tester, distended udder after 90 days, rectal palpation.
21. Name one reason why it is advantageous for sows to farrow in farrowing crates rather than in open pens.
Space for piglets to get away from sow, can feed sow individually, can provide space for supplemental heat of piglets, increased piglet survival, reduced crushing.
22. Oxytocin is sometimes administered to sows during the farrowing process. Name one effect of the drug Oxytocin on a sow.
Causes uterine contractions, causes milk let-down.
23. True or **False**. Boars over a year of age should be used less often than younger boars.
24. Name two signs that a sow is in heat.
Standing when mounted by a boar, standing when pressure applied to back, restlessness, swelling of the vulva, irritability, increased vocalizations, ear bobbing, attempting to mount other animals
25. Name the red breed of swine with drooping ears.
Duroc
26. The first milk from a sow is called (symp, colostrum, or yogurt).
Colostrum
27. What is a cryptorchid?
A boar with one or both testicles retained within the body cavity.
28. Name the white breed of swine with large drooping ears, known primarily for its maternal characteristics.
Landrace
29. **True** or False. In general, litter size starts to decline after sows have farrowed about six litters.

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30. On the average, mature sows farrow (more or fewer) pigs born alive than first litter gilts.

More

31. True or False. A sow is comfortable at a slightly higher temperature than her day old pigs.

False. Sow would be comfortable about 68-70 degrees, day old pigs at about 85-90 degrees.

32. **True** or False. Heterosis is greater for reproductive traits than for carcass traits.

33. **True** or False. Carcass traits are more highly heritable than reproductive traits.

34. **True** or False. The Landrace breed traces its origins to Denmark.

35. **True** or False. Yorkshire x Hampshire crossbred pigs are often known as bluebutts.

36. When reading ear notches on pigs, which ear represents the litter number ear?

Pig's right ear

37. True or **False**. Nipples on replacement gilts should be blunt and inverted.

38. New-born piglets choose a specific nipple on which to nurse in the first (hours, weeks, months) of life.

Hours

39. Name the six white points normally found on a Poland China or Berkshire.

Face or snout, tail, and four legs

40. A typical single dose of commercial (not show sire) semen costs how much?

\$5 to \$10

41. How many groups of pigs could be moved through a feeder to finish floor each year if feeders were brought in at 50 pounds and sold at 240 pounds? One, three, or six?

About 3

42. Name one national or international commercial breeding stock company.

PIC, Dekalb, Genetipork, Newsham, NPD, Plus anything else that sounds appropriate.

43. In a commercial operation, about how many pigs per sow per year would an average sow be expected to produce in order to earn her keep?

Accept answers between 18 and 25

44. How many groups of pigs could be moved through a wean to finish floor each year if weaned pigs were brought in at 12 pounds and sold at 240 pounds? 2, 4, or 8?

About 2

45. About how much water will a lactating sow drink each day? 2, 5, or 18?

About 5 gal, actual intake ranges from 3 - 7 gal.

46. Which breed is known as "The Mother Breed"?

Yorkshire

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47. In the 1980's, Chinese pigs were imported into the United States because of a certain trait. Name the economically important trait in which Chinese pigs excel.

Ability to have very large litters.

48. If a herd of sows averaged 9 pigs weaned per litter and 2.3 litters per sow per year, how many pigs weaned per sow per year would that be?

20.7 (9 x 2.3)

49. Where on the sow would you hold the probe of an ultrasonic pregnancy tester to check to see if a sow was pregnant? Rear flank, rib, or tailhead?

Under the rear flank between the hairline and nipples.

50. Name the reproductive organ in a sow where piglets grow and develop.

Uterus

51. The minimum number of nipples needed for registration of gilts in most breeds is ____.

12 nipples

52. Name one reproductive effect you would expect in a sow herd if you fed corn contaminated with mycotoxins.

Fewer sows settle or become pregnant after mating, Irregular heat periods.

