Reloading A to Z

Test Questions:

- 1. A cartridge is the primer, powder and projectile in a convenient form.
 - a. 1
 - b. F
- 2. What form of primers are most popular in the United States?
 - a. Cup
 - b. Berdan
 - c. Boxer
- 3. Where did Berdan Primers originate?
 - a. The United States
 - b. Europe
 - c. Australia
 - d. South America
- 4. Any old primer will do when making up my reloads.
 - a. True
 - b. False
- 5. Name the three basic types of gun powder used in modern cartridges:
 - a. Flake, Ball, Tubular
 - b. Flake, Rod, Ball
 - c. Rod, Powder, Granular
 - d. Ball, Granular, Flake
- 6. Modern smokeless gun powder has a coating to help control the burn rate.
 - a. True
 - b. False
- 7. The shape of the powder kernels effect the burn rate of the powder.
 - a. True
 - b. False
- 8. What is the advantage or round nosed bullets in semi-auto pistols?
 - a. They don't corrode
 - b. Reduce over-penetration
 - c. Larger wound cavity
 - d. They feed well.
- 9. What is a "Hardball", when referring to bullets?
 - a. A round nosed full metal jacketed bullet
 - b. A jacketed round ball
 - c. A solid copper ball
 - d. A hard copper round nose bullet
- 10. Semi-Wadcutter bullets are generally not very accurate.
 - a. True
 - b. False
- 11. What is the purpose of the circumference grooves in a cast lead bullet?
 - a. A place to crimp the bullet

- b. A place to hold bullet lube and reduce friction
- c. The grooves clean the bore when fired
- d. The grooves improve aerodynamics of the bullet
- e. None of the above.
- f. All of the above
- 12. What is the canelure (groove) on jacketed bullets for?
 - a. Crimping the case mouth to prevent the bullet moving under recoil.
 - b. Holding bullet lube
 - c. Headspacing the cartridge
 - d. Keeps the copper jacket and the lead core from separating on impact
- 13. The purpose of the hollow base on a full wadcutter bullet is:
 - a. To allow the bullet to obdurate easily into the lands and grooves of the barrel.
 - b. It's these so you can make your own tracer rounds.
 - c. Because when you load them backwards they look cool.
 - d. It increases case capacity.
- 14. Bullet lube on cast lead bullets is used to help minimize fouling in the bore.
 - a. True
 - b. False
- 15. A gas check added to a cast lead bullet allows jacketed bullet velocity without fouling the barrel.
 - a. True
 - b. False
- 16. The relationship of the base of the bullet to the body (uniform/non-uniform) is not critical to produce the best accuracy.
 - a. True
 - b. False
- 17. If gases are able to vent unevenly as the bullet exits the muzzle of the guns accuracy will suffer.
 - a. True
 - b. False
- 18. What are thin jackets on bullets good for?
 - a. They are fast expanding, best used on thin skinned game like varmints.
 - b. Protecting the bore from fouling
 - c. Slow expansion
 - d. Warm weather shooting
- 19. What is the value of a long tapered ogive on a rifle bullet?
 - a. Sexy looks
 - b. Easier to work with when reloading
 - c. Generally provide better accuracy at long ranges
 - d. Easier to manufacture
- 20. Soft lead tips on jacketed bullets serve what purpose(s)?
 - a. They can be used as a pencil in a pinch
 - b. Jacket material is harder to form so the lead makes a nice sharp tip
 - c. It hides any defects at the nose of the bullet
 - d. The exposed lead aids in the expansion of the bullet at a wider rang of velocities
 - e. All of the above
 - f. None of the above

accc	-	nd extend the accurate range of the bullet. True
		False
22 Wha	nt is the	name for the tapered part of the rifle bullet ahead of the parallel bore
	tact sur	
	a.	Slope
		Taper
		Nose
		Ogive
23. Wha	it featu	re of a bullet can be used to overcome drag or improve retained velocity
and	improv	e accuracy over a longer range.
	a.	Polymer tip
	b.	Ogive
	c.	Base
	d.	Boat tail
24. Why	would	you select a bonded core bullet for your load?
	a.	Bragging rights
	b.	Because if it's bonded is has to be better
	c.	Higher velocity potential
	d.	Better retained weight
		provides an opportunity to make up loads that commercial manufacturers
do n	ot offer	
		True
	b.	False
26. Rimı	med ca	rtridges are seldom used in revolvers and single shots.
	a.	True
	b.	False

a. Most of the time

d. For faster manufacturing

28. Rimmed cases headspace on the thickness of the rim.

c. Duh, that's why we call them rimless

a. Sporting Ammunition of America Makers Industry
b. Sporting Arms & Ammunition Manufactures' Institute
c. Specialized Armament & Assault Manufacturers Institute
d. Society of Arms Association and Manufacturers Industry

30. SAAMI creates and publishes industry standards for headspace of firearms

b. Always

a. Trueb. False

and cartridges.

a. Trueb. False

29. What does the acronym SAAMI stand for?

		The junction of the neck and shoulder				
	C.	The front edge of the extractor groove on the case				
	d.	A specified point along the shoulder				
32.	Belted case	s headspace on the shoulder of the case.				
	a.	True				
	b.	False				
33.	Berdan prir	ners require cases that are manufactured just for their use.				
	a.	True				
	b.	False				
34.	Cartridge ca	ases that are made to use Berdan primers will have:				
	a.	Extra long necks				
	b.	Multiple flash holes				
	С.	The anvil as part of the case				
	d.	Weak case walls				
	e.	Both b and c				
35.	Boxer prime	ed cases only have one flash hole in the center of the primer pocket.				
	a.	True				
	b.	False				
36.	36. The Berdan priming system was design by an engineer in Canada					
	a.	True				
	b.	False				
37.	Most breed	hes have an ejector cut in some form. Why does that matter?				
		of the contract of the first the contract of the first of the contract				
		If the case won't eject the gun can malfunction				
		The marks left from the ejector cut on the breech face are an indication of excessive pressure.				
	С.	Because it is the cheapest way for a manufacture to make them				
	d.	All of the above				
20	en chile c	the state that the first and the halo of the halo or at he should be				
38.		ring pin in the firing pin hole of the bolt must be closely fit:				
		For accuracy				
		For reliability				
	C.	To prevent primer damage				
		To protect the shooter				
		All of the above				
	f.	None of the above				
20	العبيدة ممموما	thick are the come from the colid bond all the way to the core with 2				
39.		thickness the same from the solid head all the way to the case mouth?				
		Yes				
		No				
	C.	Depends on the maker				
40	Name the :	parts of a rimless bottle neck cartridge case.				
40.	-	parts of a rimless bottle neck cartridge case:				
	d.	Solid Head				

31. What is a Datum line on a rimless bottle-neck cartridge?

a. The imprint on the case head

b. Web

d. Neck

c. Body/Shoulder

e. All of the above

43. Neck tensio	n on the bullet does not affect accuracy.
a.	True
b.	False
44. What is "ov	er hore"?
	Too much case capacity for the diameter of the bore
	Where the sights are mounted
	Cartridges with heavy recoil
	Term for chambers that have been cut too large
45 5	Variables of second and a second small and the selection of
•	/or resized cases are never smaller than the chamber.
	True
b.	False
46. How often i	s <u>all</u> of the powder consumed during the firing of a cartridge?
a.	Always
b.	Never
C.	Rarely
d.	One in Fifty
47. During firing	g, cartridge brass expands to match the dimensions of the chamber.
a.	True
b.	False
48. Factory load was designe	ded ammunition is perfect and exactly matches the chamber of the gun it ed for.
a.	True
b.	False
49. Brass has ce	ertain properties that make it ideal for cartridge cases. What are they?
a.	The ability to contain pressure
b.	Elasticity
C.	Memory
d.	All the above
e.	None of the above
50. The only ca	use of case head separations is Excessive Headspace, either in the gun or
the ammur	ition (or both).
a.	True
b.	False
51. Why do you	need to understand Headspace methods?
a.	
b.	Because when reloading we can cause headspace if we set-up the
	dies incorrectly
c.	So we can set-up to remove any headspace to improve accuracy if desired
	A & C

41. Will accurate loads more commonly have a high or a low load density?

42. In order to preserve case capacity the bullet should not be seated too far below the

a. Highb. Low

a. Trueb. False

junction of the neck and shoulder.

- e. B&C
- 52. The condition of a fired primer can be misleading when you're trying to diagnose pressure problems.
 - a. True
 - b. False
- 53. There are no tools that will allow the average reloader to measure pressure of loads in their personal firearms.
 - a. True
 - b. False
- 54. Excessive pressure can result in:
 - a. Ruptured cases
 - b. Pierced primers
 - c. Unnecessary wear on the firearm
 - d. Spontaneous disassembly of the firearm
 - e. All of the above
- 55. A good ball park figure (estimate) for how much velocity you might gain or lose with an inch of barrel length is:
 - a. 100 fps
 - b. 55 fps
 - c. 25 fps
 - d. 75 fps
- 56. Knowing what components, barrel, and barrel length that were used by the maker of the manual can be useful information when trying to pick out a load from a manual to test in your gun.
 - a. False
 - b. True
- 57. Which type of brass is likely to have the lowest case capacity due to its construction?
 - a. Remington
 - b. Winchester
 - c. Starline
 - d. Military
 - e. Norma
- 58. Why do we use the starting loads in the reloading manuals?
 - a. Because I like my guns
 - b. For safety
 - c. Because starting loads are normally safe in any gun
 - d. Because we are working with a new gun
 - e. All of the above
- 59. What information do the publishers of reloading manuals use to insure there data does not exceed safe pressure limits?
 - a. Powder manufacturers' tests
 - b. SAAMI maximum pressure limits.
 - c. Gun manufacturers' recommendations
 - d. U.S. Government Laboratory guidelines
- 60. What does C.U.P. stand for?
 - a. Copper Units of Pressure
 - b. Chamber Units of Pressure
 - c. Crusher Units of Pressure
 - d. Cup Units of Pressure

b.	False
62. What does	P.S.I. stand for?
a.	Pressure Safety Index
b.	Practical Solution Indices
C.	Pounds per Square Inch
	Permissible Sonic Inhibitor
63. Historical re	eloading manuals are useful for data that is not currently in print, but should not be substituted for a
modern manua	al if available for the same cartridge.
a.	True
b.	False
-	
64. Reloading r	nanuals rarely have dimensions for cartridges provided for your e.
a.	True
	False
65 Why is reco	ord keeping valuable for the reloader?
•	To record results for future reference
	To avoid duplicating experiments
	Helps with making decisions after range testing
	So that you will know if your results make sense
e.	All the above
66. How many	grains of powder do you increase when adjusting a load?
	½ grain
	1 grain
	2 grains
	1½ grain
	value/advantage of a chronograph?
	Knowing the velocity of your load allows you to calculate trajectory either from tables or software.
b.	Knowing the velocity helps us know when we are approaching maximum pressure because pressure and
	velocity are directly related.
С.	We can tell if the cartridge manufacturers' velocity figures are accurate
d.	We will know if the powder manufacturers are being too careful with their maximum loads
e.	A, B, C
ignition.	rimers are never recommended for use with Ball type powders to achieve more reliable and uniform
	True
b.	False
69. Switch betv	veen magnum and standard primers for any given load you should:

61. C.U.P and P.S.I. are not interchangeable terms.

a. True

a. Say a prayer

c. Chronograph the loadd. Reduce the load for safety

70. Accuracy is more important than velocity.

a. Trueb. False

b. Write to the maker for permission

,	True
b)	False
	e reloading presses come in different styles, which are correct:
	'O' Frame
	'C' Frame
	Multi stage (station)
	Turret
e.	All of the above
-	ell holders separate items from the reloading press?
	So the reloading companies can make more money
	Because variety is the spice of life
_	To allow the reloader lots of choices
a.	To make the press a universal tool that can load many calibers
	es have a bushing mounted where the die threads in. What is the purpose
of this bush	ingr To lubricate the dies
_	
	To allow the use of larger diameter dies For quick change of the dies
	To make rebuilding a worn press possible
	B & C
75 What threa	d is commonly used on modern reloading dies.
	5/8″x24
	1"x12
c.	1"x14
d.	7/8"x14
76. Turret pres	ses allow you to keep many dies set up in the press for quick change from
one die or	caliber to another.
a.	True
b.	False
77. Progressive	reloading presses:
a.	Are not worth the trouble
b.	
	Can only be used for a single cartridge
_	All of the above
e.	None of the above
	cales are insensitive and are relatively unaffected by the environment
they are use	
	True
b.	False
	cusing of necessary in one necessary
79. How many	grains of powder in one pound?

b. 2400c. 5600d. 7000

a. Trueb. False

80. Reloading dies are not interchangeable between brands of reloading presses.

a.	True
b.	False
32. Shell holde	ers are interchangeable between brands of reloading presses, but:
a.	Sometimes they fit poorly
b.	Each company has its own numbering system
c.	Are totally adjustable
	Never interchangeable for different cartridges

b. To return the brass to its basic dimensions so it will fit in any gun chambered for that cartridge.

84. Expander balls are used to make the inside diameter of the case neck correct to retain

d. Size the brass down to factory dimensions or close to them

87. In order to avoid bending the de-capping rod, it must be carefully adjusted so as to push the spent primmer all the way out of the case but not so low that it allows the

86. The de-capping pin must never protrude below the bottom of the resizing die.

set screw.

a. Trueb. False

a. Trueb. False

a. Trueb. False

a. Trueb. False

the bullet with proper tension after resizing.

a. Stretch the brass to it's full length

c. Prevent case head separations

88. What is the purpose of a standard full length resizing die?

d. Use a big heavy 'O' frame press

a. Set up can take a little time

89. How can you get the maximum amount of sizing out of the resize die?

c. Follow the Die makers instructions for set up

90. It is impossible to use standard dies to resize cases to match your chamber's

91. Attention to detail will produce better quality reloads. For this reason:

c. We check the condition of the brass all through the process

b. We make incremental adjustments to dies

85. Full length resizing dies are designed to:

b. Polish the brass

expander ball to touch the case head.

a. To neck size

a. Lubricationb. Use a Mallet

a. Trueb. False

headspace.

c. To expand the neckd. To re-prime the case

- d. We often check the sized brass in the firearm
 e. All of the above
- 92. We debur the inside of the case mouth to:
 - a. Make a cookie cutter
 - b. Allow the bullet to enter the case mouth easier
 - c. Avoid damage to the bullet
 - d. Both b and c
- 93. Why is consistency in reloading practices important?
 - a. Consistency breeds accuracy
 - b. So you can switch your brain off while reloading
 - c. It avoids errors
 - d. It enhances safety
 - e. C, D, A
- 94. Why do cases get stuck in resize dies?
 - a. Too much Lubrication
 - b. Sizing too fast
 - c. Dies are too hot
 - d. Too little lubrication
- 95. Why might a case come out of the resize die with a dent in the shoulder or body?
 - a. Entered the die crooked
 - b. Too much air pressure in the die
 - c. It went in dented
 - d. Too much lubrication on the brass
- 96. Why would you use a "Small Base" resize die?
 - a. When the brass will be used in a semi-auto
 - b. When you have a large base
 - c. To create a belt on a case
 - d. To check for web expansion
- 97. Why do you clean primer pockets?
 - a. Why not?
 - b. So that the primer will seat properly
 - c. Because cleanliness is next to Godliness
 - d. To keep dirt from contaminating primers
- 98. Primers are....
 - a. Flammable
 - b. Explosive
- 99. Safety glasses are required for reloading.
 - a. True
 - b. False
 - c. Safety glasses are for sissies
- 100. Primers should be seated to what depth for best performance?
 - a. Between .010" and .015" below flush
 - b. Flush
 - c. As deep as they will go
 - d. Between .001" and .005" below flush
- 101. If a primer is not seated below flush there is a safety concern.
 - a. True
 - b. False

a.	Ruptured primers
	Pierced primers
c.	Flat primers
d.	Accuracy issues
103. There are	few ways that you can seat primers with good results.
a.	True
b.	False
104. The busin	ess card test shown in the course allows you a clear and easy visual
reference	for checking seating depth.
a.	True
b.	False
105. Powder ca	an be measured by volume using:
a.	Powder Dippers
b.	The case as a scoop
C.	Just filling the case to the top
d.	A teaspoon
106. Powder so	cales are available in a wide range of prices.
a.	True
b.	False
107. Powder is	measured in grains or grams when using scales to check charges.
a.	That refers to the number of individual little pieces of powder
b.	This refers to the weight of the charge
c.	It can take a long time to count the little pieces of powder for a big charge
108. Powder m	leasures work by metering powder in what way?
a.	By weight
b.	By volume
C.	By trickling

d. Through a funnel

e. Both B & D

c. Easy to use

e. Both C & D

e. All of the above

a. For consistent resultsb. To avoid spilling powderc. To ground out the tray

109. Using a micrometer thimble on a powder measure will allow you to:a. Drink more adult beverages while loading

a. An extra product you can add to the measure

d. Provide fine adjustment of the powder charge

d. For smooth operation of the measure

d. Return to the same charge from your reloading records quickly

b. Not correlated to any powder, the numbers are a reference

111. Hold the powder tray from the scale against the pour spout of the powder measure:

b. Adjust the measure more preciselyc. Switch between powders more quickly

110. The micrometer thimble on a powder measure scale is:

e.	True		
f.	False		

- a. They are accurate
- b. They are fast
- c. They are dirt cheap
- d. They automate what can be a time consuming job
- e. All except C
- 114. Powder measures can only be mounted one way on the reloading bench.
 - a. True
 - b. False
- 115. Rifle seating punches will work with a variety of bullet nose shapes.
 - a. True
 - b. False
- 116. What feature on the reloading dies allows you to prevent the dies from moving in the press and potentially changing the way they work the brass.
 - a. Split Nut
 - b. Lock Nut
 - c. Threads
 - d. Shell Holder
- 117. Reloading manuals often show multiple bullet configurations of the same weight along side matching reloading data. You have a bullet of the same weight, how do you know which data is safe to use?
 - a. It will be in bold print
 - b. Start with the lightest (starting load)
 - c. Color coding in the manual
 - d. My bullet must be pictured
- 118. When a manual shows multiple bullet designs for the same weight bullet will they all perform exactly as the data indicates?
 - a. They will be similar, (close enough to safely interchange the data)
 - b. They may vary in results because of contact surface variations
 - c. Nearly any bullet of the same weight can use published data from any source
 - d. The ogive can change how the bullet flies down range, but you can interchange bullets of the same weight safely if you start low
 - e. All of the above
- 119. Powder measures are notoriously unreliable so you have to weigh and trickle every single charge you load.
 - a. True
 - b. False
- 120. What is the best location for your powder scale on the reloading bench?
 - a. Under a dust cover
 - b. Middle of the bench
 - c. Wherever seems convenient
 - d. Eye level
- 121. It is possible to seat bullets without a crimp, even though the die is made to crimp.
 - a. True
 - b. False

- 122. How do you determine correct cartridge overall length (C.O.L.)?
 a. It's common knowledge
 b. Most reloading manuals contain this data
 c. Call a friend
 - 123. You can use loading blocks to help keep track of where you are in the loading process. This can be very helpful if you have to take a break for any reason.
 - a. True
 - b. False
 - 124. Define a "squib" load.
 - a. A cartridge with little or no powder that often allows the bullet to stick in the bore, creating a dangerous situation
 - b. A load designed for sailors

d. Ask people in the Internet

- c. A low power indoor load
- d. A low power load with a soft (nonlethal) bullet
- 125. Can reloading dies be interchanged between brands of reloading presses?
 - a. Yes
 - b. No
- 126. In order to crimp a bullet in most reloading dies you:
 - a. Buy a special die
 - b. Simply follow the directions that come with the dies
 - c. Make the die touch the shell holder
 - d. Use longer cases
- 127. If you over-do the crimp what will happen?
 - a. Just a really deep crimp
 - b. It will change the seating depth
 - c. The case may be damaged and made unusable
 - d. Warning buzzers will sound
- 128. Details matter for your reloading success.
 - a. True
 - b. False
- 129. Reloading with the Lee Loader for straight walled case is:
 - a. Inexpensive
 - b. Portable
 - c. Slower than loading on a press
 - d. Mechanically identical to loading on a press
 - e. All of the above
- 130. The extra die in a 3 die set is the (hint: it performs a process unique to straight walled cases:
 - a. Ram Prime Die
 - b. Bullet Seater Die
 - c. Shell Sorting Die
 - d. Expander Die
- 131. Electronic powder scale/dispensers:
 - a. Speed the process along
 - b. Are hard to work with
 - c. Require continual maintenance
 - d. Are not adjustable

132. What is th	ne best way to avoid errors in reloading?
	,
a.	Write down your load details
b.	Concentrate on what your doing
C.	Avoid distractions
d.	Use the same order of operation each time
e.	All of the above

- 133. Single stage presses can be single station, multi station, or turret style.
 - a. True
 - b. False
- 134. Turret presses can often hold more than one set of dies at a time.
 - a. True
 - b. False
- 135. Annealing is the process of hardening brass.
 - a. True
 - b. False
- 136. Dry your brass if you quench:
 - a. To protect the primers from water
 - b. Powder will soak up water and loose its flammability
 - c. On a tray in the sunshine
 - d. In the oven at about 150 degrees
 - e. All of the above
- 137. Why are we able to quench brass while annealing without causing the brass to harden.
 - a. Brass is hygroscopic
 - b. Brass, unlike some steels, does not harden via quenching
 - c. Because we boil the water first to take the hardness out
 - d. Because we do not get the brass hot enough to cause hardening
- 138. Brass can be reloaded many times. How many times?
 - a. 43
 - b. As many as you want
 - c. Until it turns color
 - d. Two dozen
 - e. None of the above
- 139. What causes brass to stretch?
 - a. Depends on how your load it
 - b. Depends if you full length resize every time
 - c. Depends if your gun has excessive headspace
 - d. Depends on how you set up the reloading dies
 - e. All the above
- 140. The process of going back and forth between firing the brass and resizing it causes the brass to become shorter.
 - a. True
 - b. False
- 141. Why is the length of your cartridge case a safety concern?
 - a. Short cases are sloppy in the chamber
 - b. When a case is too long it may be pinched by the end of the chamber, potentially causing a pressure spike
 - c. So you will buy more reloading tools
 - d. Because it would affect bullet seating depth
- 142. As cases grow in length it is never safe to use them until they reach maximum length.
 - a. True

- b. False 143. What is the normal amount we trim below the maximum allowed length? a. 0.100" b. 0.010" c. 0.012" d. 0.025" 144. Brass that is too short is not a problem if it's only a few thousandths of an inch short, but: a. It may allow fouling to develop at the end of the chamber near the throat
 - - b. It effects case capacity
 - c. It can be hard on the reloading dies
 - d. Who cares, I just want to go shooting
- 145. What is the simplest way to trim brass to minimum length?
 - a. Have your buddy do it
 - b. Buy new brass
 - c. With a gauge
 - d. A File/Trim die
- 146. Case trimming is normally performed how often?
 - a. Every time you reload
 - b. Every other time you reload
 - c. About every tenth time you reload
 - d. About every five or six times you reload
- 147. Case trimming is not an essential part of the reloading process.
 - a. True
 - b. False
- 148. Dirty brass:
 - a. Is unsightly and will embarrass you at the range
 - b. Can scratch your reloading dies
 - c. Will make your tumbling media turn green
 - d. Should be sold at the next gun show
- 149. Clean brass will:
 - a. Look better
 - b. Feed better
 - c. Extract better
 - d. Shine brightly
 - e. All of the above
- 150. Tumbling media must be matched to the type of cartridge cases being cleaned.
 - a. True
 - b. False
- 151. When using an ultra-sonic brass cleaner it's a good idea to:
 - a. Use an appropriate cleaning solution made for brass
 - b. Buy cheap cleaning solution at the dollar store
 - c. Run the cleaning cycle for 3 to 5 hours
 - d. Use a cotton swab to clean out primer pockets
- 152. Uniforming primer pockets has what benefit?
 - a. Easier cleaning of primer pockets
 - b. Longer case life
 - c. More flash to the powder

- d. Aids in accuracy via uniform seating depth of primers

 153. Where can you find data for maximum case length?

 a. At the sporting goods store

 b. On the back of the box

 c. In most reloading manuals

 d. By measuring factory new cases

 154. When using a dial caliper to measure, best accuracy comes from:
 - a. Holding the tool level
 - b. Reading the instructions
 - c. Setting a zero first
 - d. Being careful to keep the part square to the jaws
- 155. Case gauges are notoriously unreliable for checking case length.
 - a. True
 - b. False
- 156. A dial caliper is the most universal of all case gauges.
 - a. True
 - b. False
- 157. Automating any of the case preparation processes like trimming, deburring or flash-hole uniforming can be:
 - a. A big time saver
 - b. Minimize blisters
 - c. Increase useful brass life
 - d. Improve accuracy
 - e. All the above
 - f. None of the above
- 158. Flash-hole uniforming accomplishes what?
 - a. Nothing
 - b. Removal of burrs around the flash hole
 - c. More uniform flash
 - d. Hotter flash
 - e. Answers B and C
- 159. When you're done tumbling brass it's a good idea to:
 - a. Shake all the media out of the cases
 - b. Unplug the tumbler
 - c. Wash the brass to remove polishing compound
 - d. Check flash holes to make sure they are clear of media
- 160. The Shell plate on the Lee Pro 1000 is essentially three shell holders.
 - a. True
 - b. False
- 161. The 3 die set in the progressive press is totally different than the one's we used in the single stage press.
 - a. True
 - b. False
- 162. Progressive reloading presses are a faster way to reload because:
 - a. They have a shorter stroke than other presses
 - b. They automate many of the functions of the reloading process
 - c. Progressive and Liberal are interchangeable

- d. They are made for home use163. Extended shell holder are used with:
 - a. The specific brand of press you are using
 - b. Case lube
 - c. Mass quantities of brass
 - d. Cases that are short, to reduce the stroke length of the press
- 164. Deburring the brass aids in the die moving in and out of the dies without any unnecessary wear or damage.
 - a. True
 - b. False
- 165. All extended shell holders have depriming holes through them.
 - a. True
 - b. False
- 166. Redding competition shell holders provide:
 - a. Control over headspace
 - b. Extra shell holders
 - c. Potentially better accuracy
 - d. Better speed
 - e. Both A and C
- 167. Ammunition loaded with Redding competition shell holders is intended to:
 - a. Be used in the same gun it was fired in previously
 - b. Be used in any gun after that
 - c. Provide flatter trajectory
 - d. Use cast bullets
- 168. A powder baffle is used in a powder measure so that:
 - a. Powder will weigh less
 - b. Charges will be more uniform
 - c. Sparks cannot enter the hopper
 - d. You can smoke while reloading
- 169. Drop tubes will:
 - a. Let you watch the powder drop into the case
 - b. Increase reliability of the measure
 - c. Look cool
 - d. Allow bulky powders to stack better in the cartridge case
- 170. Dry type neck sizing lubes are used because:
 - a. Nobody likes a sticky neck
 - b. Lubing the entire case in not necessary when neck sizing
 - c. They are less messy and easy to use
 - d. Wet lubes are too runny
- 171. Neck sizing dies
 - a. Capitalize on the accuracy of the fire formed case
 - b. Are made by nearly all reloading tool makers
 - c. Are used in place of the full length sizing die
 - d. Still de-cap the case while sizing
 - e. All the above
- 172. Lee Factory crimp dies are used to crimp a bullet with or without a canelure.
 - a. True
 - b. False

- 173. Bullet pullers allow you to recycle powder, bullets and cases from loads you do not intend to shoot.a. Trueb. False
 - 174. Record keeping is:
 - a. For sissies
 - b. Only for competition shooters
 - c. Tedious
 - d. Useful in saving time and money for any reloader
 - 175. What is the most important thing you should have learned from this course?
 - a. Loading is fun
 - b. Fred can be a dork sometimes
 - c. There is nothing else to learn
 - d. Using safe practices at the reloading bench and the range will insure years of fun
 - 176. When changing variables in any load, only change one thing at a time so you can deduce the result without any confusion over the source of the change.
 - a. True
 - b. False

Lee Loader

- 177. Which impact tool would be best suited for use with the Lee Loader or similar reloading system?
 - a. a small sledge hammer
 - b. a claw hammer
 - c. a rubber mallet
 - d. a polymer mallet
- 178. What is the only adjustment the user can accurately make using the Lee Loader?
 - a. Bullet seating depth
 - b. Case capacity
 - c. Crimp engagement
 - d. Case length
- 179. Why is a hard stable surface preferred when using the Lee Loader?
 - a. You will use less force during the various striking operations.
 - b. The die body would roll out of reach on a wood board.
 - c. You might poke a hole in the surface with the decapping rod.
 - d. You will lose powder out of the case due to static electricity.
- 180. What could happen if you mixed up the capping and decapping rods while seating a primer?
 - a. The primer would be seated sideways
 - b. The de-capping pin could set the primer off.
 - c. The finished cartridge would tarnish prematurely.
 - d. It could affect headspace.
- 181. Because the Lee Loader is so simple and well thought out, there is not much useful information in the instructions.
 - a. True
 - b. False
- 182. The Lee Loader can be used to load multiple rifle and pistol calibers interchangeably.
 - a. True
 - b. False
- 183. The lee loader is portable.
 - a. True

- b. False184. The dipper that comes in the kit is safe to use with any bullet/powder combination.a. Trueb. False
- 185. Why is it more important to check every neck you crimp with this tool?
 - a. The die has jagged edges that can damage the neck if you don't seat the bullet deep enough.
 - b. Fred will "get you" if you don't.
 - c. The crimp is set with a striking motion and it takes practice to get them to come out the same.
 - d. Rolling taper crimps are notorious for walking.
- 186. The Lee Loader would be the best choice for a competition/benchrest shooter looking to improve her score.
 - a. True
 - b. False

Lee Hand Press

- 187. What is one major advantage of a hand press?
 - a. They do not rust
 - b. They are both portable and affordable
 - c. They are very stable when bolted to a bench
 - d. They can be used as a club
- 188. What type of frame does the Lee Hand Press have?
 - a. O
 - b. Q
 - c. C
 - d. It has no frame
- 189. What is one major drawback of most hand presses?
 - a. You cannot full length size most rifle brass.
 - b. You can only load small and medium sized cartridges.
 - c. Everybody will want to borrow it.
 - d. You cannot achieve acceptable "hunting" accuracy with them.
- 190. Setting up dies in a hand press involves fewer steps.
 - a. True
 - b. False
 - 191. When using the Lee dipper set for powder charges, you should always choose one scoop smaller than you need so it won't matter as much if you leave it heaping a little.
 - a. True
 - b. False
 - 192. Using a card to level off a dipper is a good way to increase consistency from pour to pour.
 - a. True
 - b. False
 - 193. If you buy a Lee Hand Press, can you use other company's components, i.e. dies and shell holders in it?
 - a. Yes
 - b. No
 - 194. Why would a hand press be a good place for a beginner to start reloading?
 - a. Hand press manufacturers offer more discounts for college students.
 - b. Hand presses are generally less expensive than bench presses but offer many of the same features
 - c. Bench presses take up too much room.
 - d. They aren't, they are too difficult to use for inexperienced loaders.

- What are some potential hazards posed by molten lead?
 a. Lead is a corrosive and can dissolve most metal cookware.
 b. Molten lead can bleed through softer metals and become lodged in tables.
 c. Molten lead is hot enough to start fires, the fumes can be poisonous, and bears are attracted to sizzling sound it makes during the fluxing process.
 d. Molten lead is very hot, the fumes can be poisonous, and water can cause violent steam bursts/eruptions.
 - 196. Lead is expensive and hard to find.
 - a. True
 - b. False
 - 197. Why do modern molds have a plate on the top?
 - a. To keep dust out.
 - b. To keep the heat in.
 - c. To cut the sprue off.
 - d. To keep the lead from bubbling out the top.
 - 198. What are two major elemental contaminants in scrounged lead alloys?
 - a. Dirt and dust
 - b. Copper and sodium
 - c. Tin and antimony
 - d. Zinc and calcium
 - 199. What are two of the most common elements used to improve hardness and casting properties of lead?
 - a. Glass and grease
 - b. Tin and antimony
 - c. Zinc and calcium
 - d. Hydrogen and selenium
 - 200. You can melt lead over a common campfire.
 - a. True
 - b. False
 - 201. Why do we not see many brass bullet molds?
 - a. Brass is expensive
 - b. Steel has better thermal qualities to it
 - c. Aluminum doesn't leave the taste of pennies on the bullets
 - d. Brass is too soft to make a long lasting bullet mold
 - 202. Why would someone buy "virgin" metals to cast bullets out of?
 - a. To gain more control over the final product.
 - b. To more easily follow load data.
 - c. To ensure a better finished product.
 - d. All the above
 - e. None of the above
 - 203. The groves in the sides of lead bullets reduce pressure spikes.
 - a. True
 - b. False
 - 204. Hardness can be increased by both a chemical process and a physical process.
 - a. True
 - b. False
 - 205. What is the common scale used to measure lead hardness in the US?
 - a. The Rockwell Scale

- b. The Digital Scale
- c. The Hardness Scale
- d. The Brinell Scale

206. What does flux do?

- a. It provides lubrication to the alloy as it enters the mold.
- b. It helps make the alloy lighter.
- c. It helps the alloy mix and combines with contaminants to "clean the alloy.
- d. It coats the lead pot so it doesn't rust.

207. What are some common fluxes?

- a. Wood, oil, wax, boracic acids (commercial flux)
- b. Wool, cotton, leather (non-flammable)
- c. Salt, sandstone, eggshell
- d. Rubber, glass, sawblades
- 208. If bullets come out of the mold with wrinkles on the nose, a likely cause would be...
 - a. The sprue plate is too tight.
 - b. The mold is too hot.
 - c. The mold is too cold.
 - d. The lead is too old.
- 209. "Frosty" bullets are caused by...
 - a. Corn cob pipes and button noses
 - b. Lead that is too hot
 - c. Contaminants
 - d. Shaking the mold while the lead cools
- 210. We "ingotize" lead to...
 - a. pre-clean our alloy and make the pieces convenient to handle.
 - b. positively charge the neutrons, allowing for greater accuracy.
 - c. add contaminants and make it easier to burn.
 - d. get all the water out.
- 211. As soon as bullets come out of the mold, they are still too hot to touch.
 - a. True
 - b. False
- 212. Why do multi-cavity (those with more than two cavities) molds generally take more time to heat up?
 - a. Because they are made of steel
 - b. Because the handles are longer
 - c. Because they usually have a different sprue plate
 - d. Because there is more mass to heat up
- 213. What relationship will help you cast bullets faster and with less trial and error?
 - a. The relationship between the density of your alloy and your flux.
 - b. The relationship with your mother
 - c. The temperature relationship between alloy and mold
 - d. The distance between the lead pot and drop area
- 214. Why would you quench bullets?
 - a. Because the sound reminds you of bacon
 - b. To make the lead softer
 - c. To make the lead shine better
 - d. To make the lead harder
- 215. Why does hardness matter?

- a. Soft bullets will deform in storage
 b. Bullets that are too hard are lighter than the load data suggests
 c. Bullets need to be hard enough that the base does not deform at the pressure you load at
 d. Shooting hard bullets at slow velocities causes the secondary explosion effect
- 216. If you lube bullets they will not leave lead in the barrel.
 - a. True
 - b. False
- 217. You have to buy bullet lube online.
 - a. True
 - b. False
- 218. Bullet lube should be selected according to the velocity you plan to shoot.
 - a. True
 - b. False
- 219. Bullet sizing dies are usually selected to be...
 - a. 0.01" under bore diameter
 - b. Equal groove diameter
 - c. 0.001" over bore diameter
 - d. 0.001" over groove diameter
- 220. When buying lubing and sizing dies for a bullet you cast, you need a...
 - a. caliber specific top punch and nose specific die body
 - b. new handle for your press to match your new dies
 - c. caliber specific die body and a nose specific top punch
 - d. the top punch and die body labeled the same as your mold
- 221. Harder lubes are generally harder to press through a Lubri-sizer and may require heating.
 - a. True
 - b. False
- 222. Casting bullets is a great way to save money, gain a greater level of control in your handloading, challenge yourself, and it is great fun.
 - a. True
 - b. False
- 223. When dropping bullet from the mold always:
 - a. Have a dry cloth on the table to catch them
 - b. Drop the sprue back into the melting pot
 - c. Strike the mold with a hammer
 - d. Strike the hinge point of the handles with a mallet to release bullets never the mold
- 224. Bullets normally come out of the mold:
 - a. Oversized
 - b. Undersized
 - c. Heavy
 - d. Light