

**Assessment**

**Circle the letter that corresponds to the correct answer.**

1. Before changing a wheel on a grinder, the operator should:
  - a. unplug the grinder.
  - b. dress the new wheel.
  - c. let the wheel run for a minute.
  - d. put the guards in operating position.
2. How should an object being ground be moved on the grinding wheel?
  - a. Side to side on the side of the wheel
  - b. Up and down on the side of the wheel
  - c. Side to side on the face of the wheel
  - d. Up and down on the face of the wheel
3. As the grit number of grinding wheels decreases, the abrasives become:
  - a. harder.
  - b. softer.
  - c. coarser.
  - d. finer.
4. Which grade of wheel is commonly selected for tool sharpening?
  - a. Hard
  - b. Medium hard
  - c. Medium soft
  - d. Soft

5. At what degree angle should the cutting lip of a twist drill be to the center of the drill?
  - a. 25
  - b. 32
  - c. 47
  - d. 59
6. What tool is used to measure the tip of a twist drill?
  - a. Tool gauge
  - b. File guide
  - c. Depth gauge
  - d. Blade balancer
7. What tool maintains the file at proper depth and angle when sharpening a chain saw chain?
  - a. Blade balancer
  - b. Depth gauge
  - c. File guide
  - d. Tool gauge
8. What is the typical angle on a lawn mower blade?
  - a. 35
  - b. 45
  - c. 55
  - d. 65
9. A link in a chain saw chain is called a:
  - a. Toe
  - b. Heel
  - c. Gullet
  - d. Cutter

10. Which two tools are typically used to sharpen a chain saw chain?

- a. Round file and file guide
- b. Round file and grinder
- c. Depth gauge and file guide
- d. Depth gauge and grinder

**Complete the following short-answer questions.**

11. What is the purpose of dressing a grinding wheel?

12. List three specifications to consider when choosing a grinding wheel and describe what each specification means.

a.

b.

c.

13. What are the three parts of a tip on a twist drill?

a.

b.

c.

14. What protective clothing is recommended for removing and installing a lawn mower blade and why?

15. Why is it important to balance a lawn mower blade?

16. List three signs that a chain saw chain needs sharpening.

a.

b.

c.

17. What can happen if the tension of a chain saw chain is too loose?