

Homework - Sawing Machines

Student Name _____ Date _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) Saw blade gage is: 1) _____
A) Blade thickness B) Pitch C) Set D) Blade length

2) Saw blade pitch is: 2) _____
A) The number of teeth per inch
B) The amount of set
C) A blade coating designed to provide better cutting
D) The total number of teeth on the blade

3) You are sawing through a piece of steel tubing with a wall thickness .250 inch. The pitch of the saw that you use should be at least _____ teeth per inch. 3) _____
A) 8 B) 12 C) 10 D) 11

4) The capacity of the horizontal band cutoff machine is determined by the: 4) _____
A) Weight capacity of the roller stock table
B) Total length of the blade
C) Largest piece of round material that can be cut
D) Largest piece of square material that can be cut

5) You are sawing a piece of material with a varying cross section. The best blade set for this application is: 5) _____
A) Raker B) Negative C) Straight D) Wavy

6) Faster cutting can be obtained from what tooth pattern because of the positive rake angle? 6) _____
A) Hook B) Standard C) Skip D) Raker

7) Common cutting fluids for sawing operations include: 7) _____
A) Water and oils B) Water
C) Soluble oils and synthetic chemicals D) Air and oils

8) If the set is gone on one side of a saw blade, the blade will: 8) _____
A) Drift in the direction of the side with the set
B) Cut only one-half as fast as if it had set on both sides
C) Drift in the direction of the side without set
D) Not cut at all

9) What is the tooth spacing in inches of a 16 pitch saw blade? 9) _____
A) 1/64 (.015) in. B) 1/32 (.03125) in.
C) 1/8 (.125) in. D) 1/16 (.0625) in.

10) Cutting speed is generally:

- A) Fast in tough, hard materials
- B) Slow in soft materials
- C) The speed that produces blue chips
- D) Fast in soft materials and slow in hard materials

10) _____