

1. HOW DOES A RADIAL ARM DRILL DIFFER FROM OTHER MACHINE DRILLS?

2. DRAW A DIAGRAM OF A POWER HACKSAW. WHY ARE THEY NEEDED IN ENGINEERING?

3. WHAT IS A MANUALLY OPERATED, SHEET METAL FOLDING MACHINE? HOW IS IT USED?

4. DESCRIBE THE USE OF LIGHT DUTY BENCH SHEARS

5. SHEET METAL IS OFTEN SHAPED THROUGH 'COMPRESSIVE MOULDING'. WHAT IS THIS?

7. WHAT IS LASER SINTERING?
(Known also as 3D metal printing).

6. PEWTER HAS A LOW MELTING POINT AND CAN BE 'CAST' INTO SHAPES. WHAT IS CASTING?

11. IN SIMPLE TERMS, DESCRIBE THE WORK CARRIED OUT ON A CENTRE LATHE. Paste an image of a typical centre lathe.

8. EXPLAIN THE USE OF A WATER JET CUTTER. Include a diagram of this type of machine.

9. WHAT IS THE REASON FOR ANNEALING METALS? DESCRIBE THE PROCESS.

10. DRAW A LABELLED DIAGRAM OF A VERTICAL MILLER. What is it used for?

12. WHAT IS SPOT WELDING? Include a diagram of the 'spot welding' process.

