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### THE JUNIOR HACKSAW **AND ENGINEERS VICE**

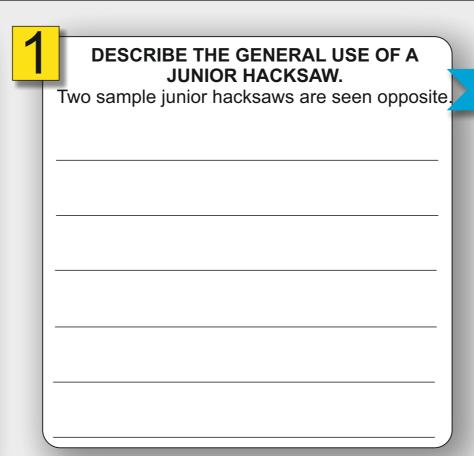
TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'WORKING WITH METALS -PART THREE' APP, FROM THE **INTERACTIVE MOBILE APP SECTION OF** www.technologystudent.com

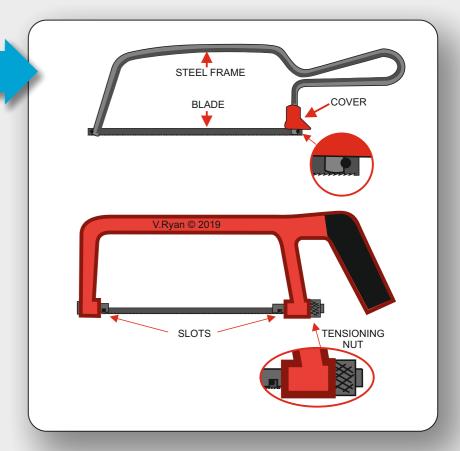
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Once you have downloaded the App, you can use it to navigate the website. You may need to follow the links on each page of the App, to research / complete answers to all the questions.

**ARE YOU READY? USE THE MOBILE App!!** 





DESCRIBE THE MAIN FEATURES OF THE ENGINEERS VICE. V.Ryan © 2019 INTERNAL VIEW V.Ryan © 2019 REPLACEABLE

WHAT ARE 'FIBRE GRIPS' AND WHY ARE THEY SOMETIMES ADDED TO THE JAWS OF THE ENGINEERS VICE?

IN THE SPACE BELOW, SKETCH ONE TYPICAL USE OF A JUNIOR HACKSAW.

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### **LEG VICE AND TAPS** FOR INTERNAL THREADS

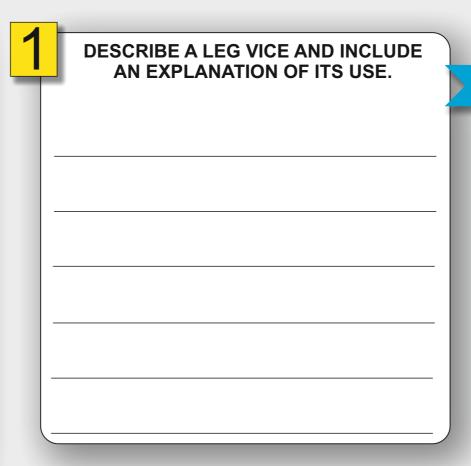
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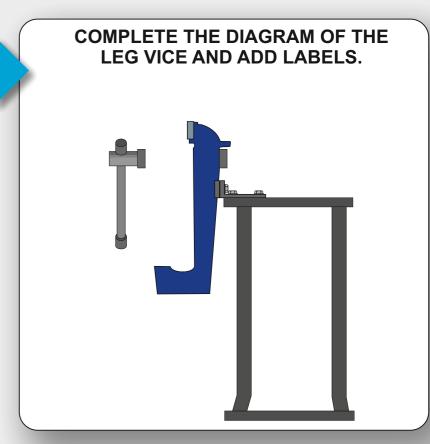
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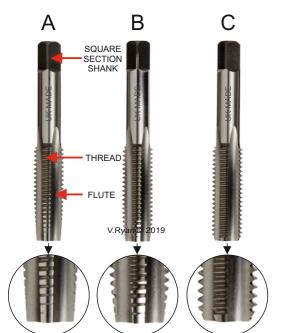
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TAPS ARE USED TO CUT INTERNAL THREADS. NAME THE THREE TAPS (A,B andC)



B:

**EXPLAIN HOW AN INTERNAL M6 METRIC** THREAD IS PRODUCED.

Support your explanation with a sketch(s) in the next box

YOUR SKETCH(S)

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### **DIES AND EXTERNAL THREADS**

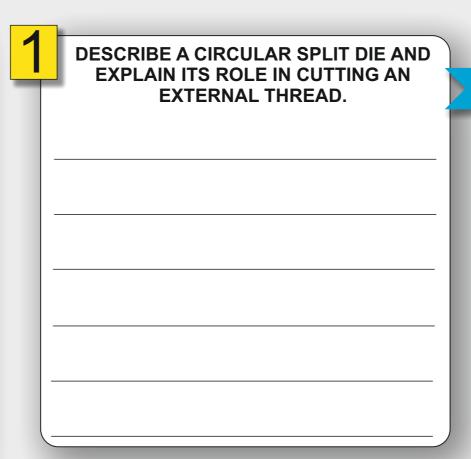
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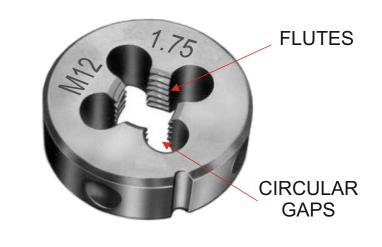
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**ARE YOU READY? USE THE MOBILE App!!** 







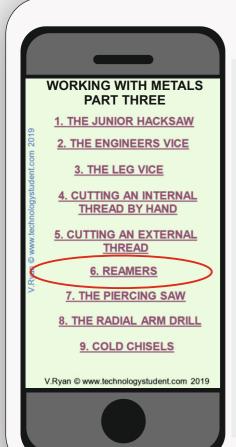
IN THE SPACE BELOW, SKETCH A DIE AND DIE **HOLDER / STOCK.** Indicate the adjusting screws.

**EXPLAIN HOW AN EXTERNAL, M8** METRIC THREAD IS PRODUCED. Support your explanation with a sketch(s) in the next box

YOUR SKETCH(S)

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### **REAMERS**

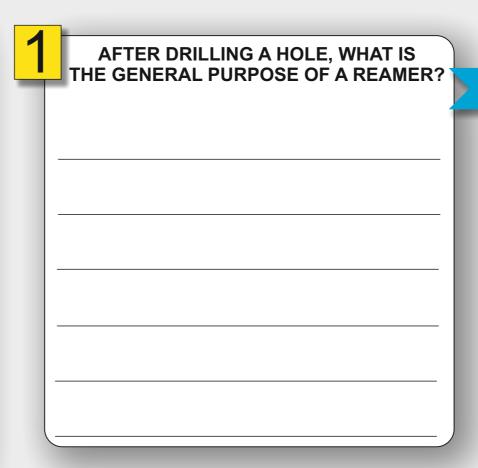
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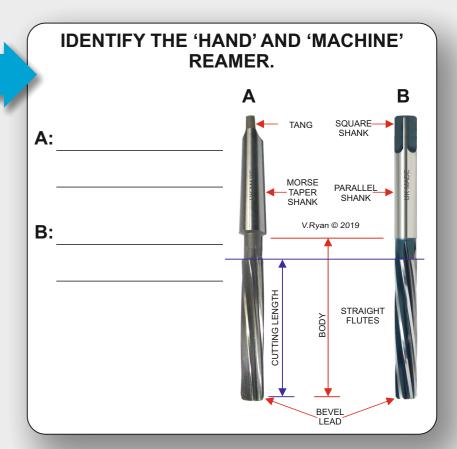
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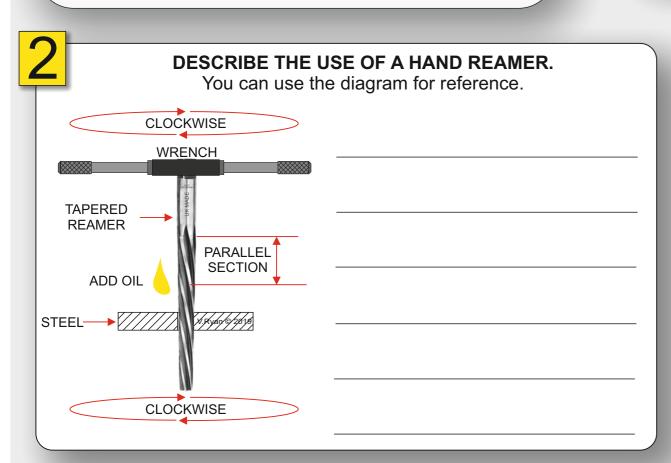
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**ARE YOU READY? USE THE MOBILE App!!** 







**EXPLAIN WHEN AND HOW, A 'MACHINE** REAMER' IS USED, AFTER DRILLING A HOLE ON A CENTRE LATHE.

**DESCRIBE ONE USE OF A TAPERED** REAMER.

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THE PIERCING SAW, RADIAL ARM **DRILL AND COLD CHISEL** 

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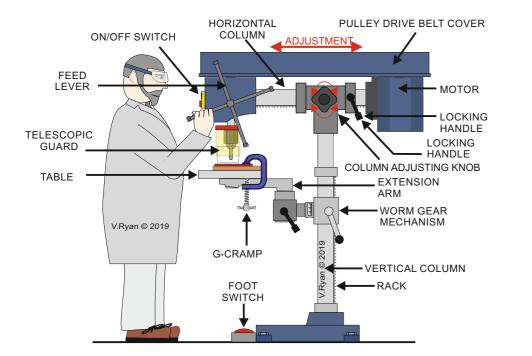
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**ARE YOU READY? USE THE MOBILE App!!** 

| 4 |  |
|---|--|
| 1 | WHEN WOULD YOU USE A PIERCING SAW?                 |
| Ī | Support your answer with a sketch in the next box. |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |

YOUR SKETCH.

HOW DOES A RADIAL ARM DRILL, DIFFER FROM A TYPICAL **MACHINE / PILLAR DRILL?** Write your answer in the next box.



YOUR ANSWER THE RADIAL ARM DRILL.

SKETCH ONE PRACTICAL USE OF A FLAT COLD CHISEL.