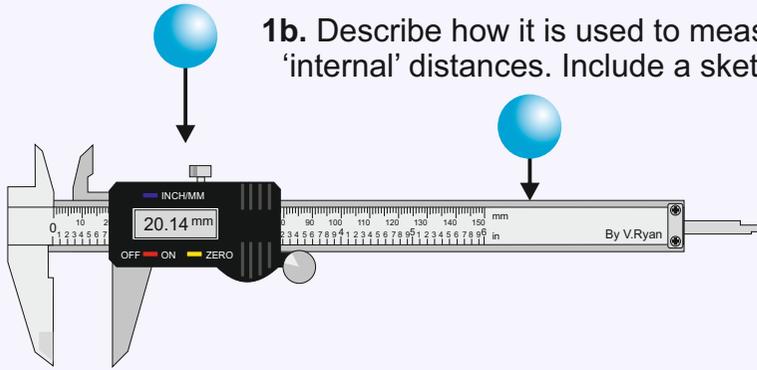


CLICK ON THE SMALL CIRCLES FOR LINKS TO USEFUL INFORMATION.

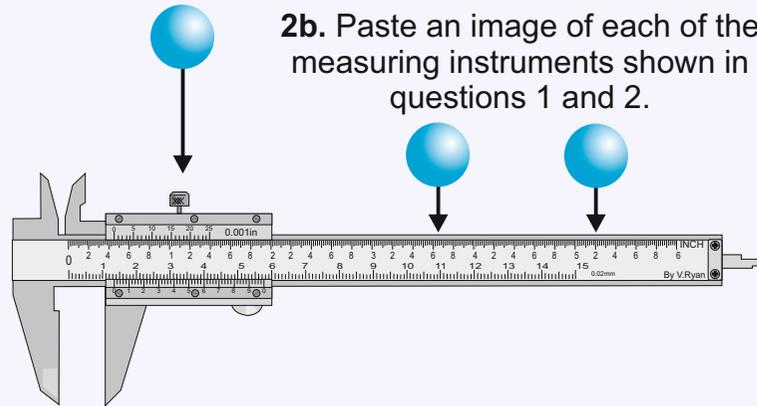
PRECISION MEASURING INSTRUMENTS

1a. Name this instrument and briefly explain its function.



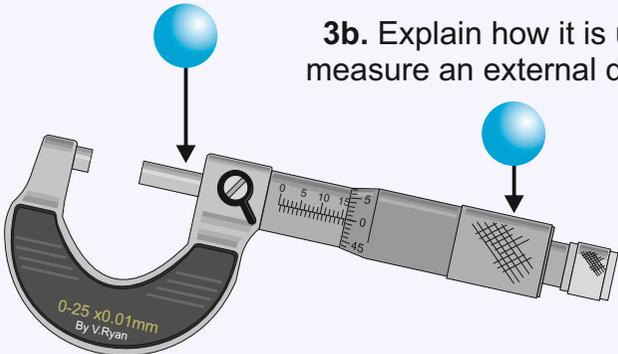
1b. Describe how it is used to measure 'internal' distances. Include a sketch

2a. Name this instrument and explain how it differs from the one above.



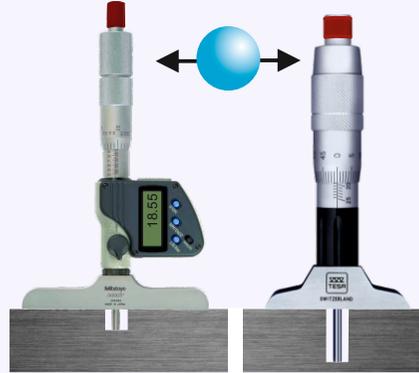
2b. Paste an image of each of the measuring instruments shown in questions 1 and 2.

3a. What is the name of this measuring instrument? Draw a labelled diagram.

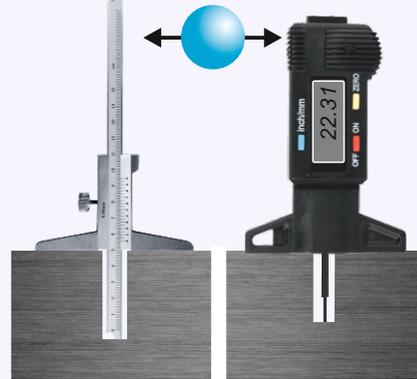


3b. Explain how it is used to measure an external diameter.

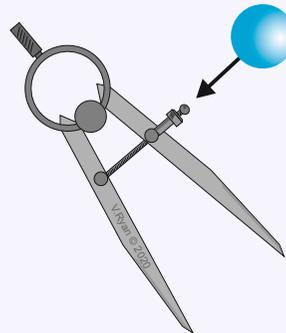
4a. Name and describe the use of both instruments shown here.



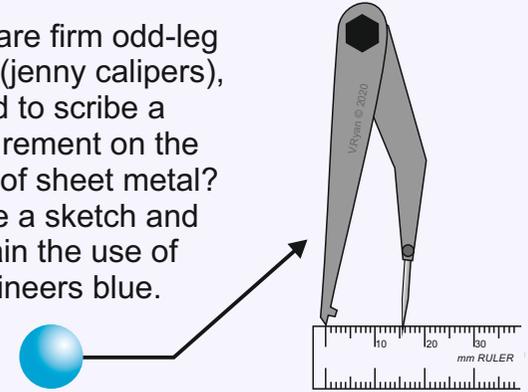
4b. What are these instruments called?



5. Explain how spring dividers are used to measure accurately. Include a sketch.

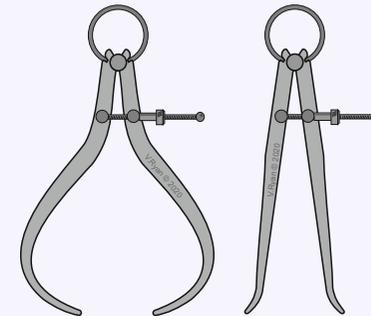


6. How are firm odd-leg calipers (jenny calipers), used to scribe a measurement on the surface of sheet metal? Include a sketch and explain the use of engineers blue.



OUTSIDE CALIPERS

INSIDE CALIPERS



7. With sketches and notes, describe how these calipers are used to measure internal and external measurements.

8. With the aid of notes and sketches, explain how the trammel shown below, is used to accurately draw / scribe a circle.

