the corresponding amounts in other units on the inner scale under the unit lines. The cursor should be used to obtain accurate answers. Example: What does 12 feet correspond to?

Put 12 on the inner scale under the FEET unit line. Under the INCHES unit line, read 144 on the inner scale. Under the METRES unit line read 3·66, and under the YARDS unit line read 4.

To determine the position of the decimal point in your answer use the tables on the reverse of the slide rule. For the above example use the tables marked at the top   feet   metre.   Enter the tables in the centre column with the number of units you have and read the conversion in the respective column at the side, i.e. 10 metres equals 32·81 feet and 10 feet equals 3·048 metres.

In the conversion of 12 feet the number under the metres unit line was 366. To determine the position of the decimal point, make the following comparisons using the tables. 12 feet is between 10 feet (3·048 metres) and 100 feet (30·48 metres) therefore the conversion must be between 3·048 metres and 30·48 metres. The number obtained was 366 so the answer must be 3·66 metres.

Example: Convert 10·7 kilograms to pounds and ounces.

Under the kilo unit line put 10·7 on the inner scale. 10·7 or 107 is 7 lines past the 10. Under the lb unit line read the number 236. To find the position of the decimal point use the tables marked at the top with   lb   kilogram.   Using the same method as before, 10·7 kg lies between 10 kg and 100 kg, therefore the conversion in pounds must be between 22.05 lb and 220·5 lb. As the number was 236 the answer must be 23·6 lb.

To find how many ounces in 0·6 lb use the table marked   lb oz   and opposite 0·6 lb is the conversion in ounces, i.e. 9·6 oz. Therefore 10·7 kg is 23 lb 9·6 oz. The reverse procedure should be used when converting lb and oz to kg.

Use the same method for the other conversions.

4