

LEARN TO ASSOCIATE BEARINGS WITH POINTS OF THE COMPASS

#### METRIC SYSTEM

1 MILLIMETRE . O 39 inches 10 MILLIMETRES 1 CENTIMETRE 10 CENTIMETRES 1 DECIMETRE 1 CENTIMETRE . 3 9 4 ...

10 DECIMETRES . 1 METRE 1 DECIMETRE 3.937 ... 1000 METRES 1 KILOMETRE 1 METRE 39.37

> 1 KILOMETRE 1.093.633 Yds. 8 KILOMETRES 5 MILES (APPROX.)

#### ROUTE CARD

CAN YOU MAKE AND USE A ROUTE CARD? A GREAT HELP TO MECHANIZED TROOPS SPECIMEN ROUTE CARD

	514310		RD.	TO. 717418 PLAITFORD (WOODS)	
REF. SHEET 131 63360 M.P. H. 18 M. I. H. 15 V.T.M. 10					
GEN. DRCTN.	MLGE.	TIME	MAP REFERENCES	DIRECTIONS	DIAGRAMS
~		~			
	3.0	0810	551328	BRIDGE OVER R.R.	3/6
	1.5	0805	524327	TURN RIGHT	
	0	0800	514310	S. P. X	1/

Read Route Card, from Bottom Up

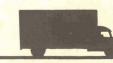


## OF THE GROUND

Arranged by S.M.I. SHAW, C.G. (Instructional Wing) 1 Cdn. A. S. C. Rft. Unit

15M-9-50 (3761) H.Q.223-14-4

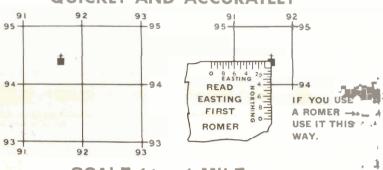




A soldier MUST read

#### REFERENCES

QUICKLY AND ACCURATELY



SCALE 1 in. = 1 MILE To find Map reference of \$\ddots\$ proceed as follows -

1. Find Number of Grid Line West of # (91) Ascertain number of tenths is east of (91) This is observed to be 6.

Set it down. hus, 916. This is known as 2. Find Number of Grid Line South of 1 (94)

Ascertain number of tenths is North of (94) This is observed to be 4. Set it down thus. 944. This is known as

NORTHING The Map reference of is therefore 916944

ALWAYS MEASURE OVER TO THE EAST AND THEN UP TO THE NORTH. IN OTHER WORDS FIND THE

U9294

EASTING AND THEN THE NORTHING.

Note-When using a reference on the 1/4 inch map give the letter of of the large square concerned. Map Reference on 1/4 in. to mile is

CORRESPOND with the ground it represents-NORTH IS THE TOP OF THE MAP-

Here are the four ways to set a map-By COMPASS Place the Compass opened on the Magnetic North and South Line of the Map. Turn the Map and compass together slowly until the Magnetic Needle of the Compass points to Magnetic North on the Map.

By OBJECTS-When the observer knows his position on the map and can identify the position of some distant object. Turn the Map so that it corresponds with the ground.

By WATCH AND SUN-(FOR NORTHERN HEMISPHERE)

If summer time is in effect I first set watch back on Standard Time. Place watch N flat with hour hand pointing

to the SUN. True South is midway between the hour hand and XII. True North is directly opposite. This method is very rough.

By THE STARS-Polaris is never more than 21/4° Bearing from True North



POSITION OF

OBSERVER ON

These constellations revolve anti-clockwise around Polaris

THIS ROMER ALSO SUITS THE 1/4 INCH MAP

SCALE 1/25000 EASTING







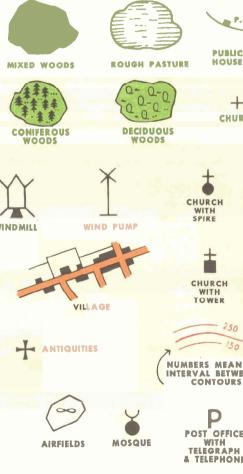
### CONVENTIONAL SIGNS ARE THE FOUNDATION





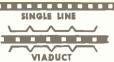




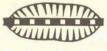












CUTTING



ORCHARDS







PUBLIC HOUSE





CHURCH TOWER

NUMBERS MEAN INTERVAL BETWEEN

POST OFFICE WITH TELEGRAPH & TELEPHONE















CANAL



CURRENT

Maps
ARE BUILT TO
SCALE

PROPORTION

A DISTANCE ON THE MAP

BEARS TO THE ACTUAL DISTANCE
ON THE GROUND



WOULD BE 1 INCH=1 MILE
DISTANCE ON MAP
DISTANCE ON GROUND 63360

LEARN TO USE SCALE LINES

CORRECTLY AND MEASURE DISTANCES

ACCURATELY

1 MILE

0

1

2

Use the secondary division on the left of Scale Line, for measuring fractional parts as shown below.

1 MILE 0 1 2

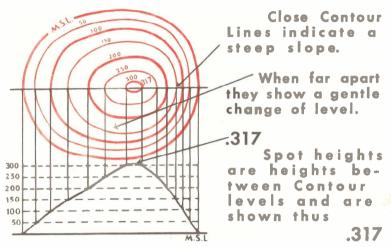
IN THIS EXAMPLE THE LENGTH OF THE MEASUREMENT IS 2% MILES

# CONTOUR LINES are drawn through positions of the same height. They show the height of ground above mean sea level (M.S.L.) in either feet or metres and can be drawn at any desired interval. On the 1 inch map, the contours are drawn for every 50 ft.,

while on the 1/4 inch map, they

are drawn for every 200 ft. of

height above M.S.L.



The vertical distance between contour lines is called the Vertical Interval (V.I.) or Contour Interval (C.I.). The horizontal distance between contours is called the Horizontal Equivalent (H.E.)

HENCE  $\frac{V.I.}{H.E.}$  = GRADIENT = A, SLOPE EXPRESSED BY A FRACTION 44.

EXAMPLE  $\frac{V.I.}{H.E.}$  =  $\frac{50 \text{ FT.}}{300 \text{ FT.}}$  = GRADIENT  $\frac{1}{6}$ 

Study the Contours

