Headquarters Air Cadets Examination

Date of Exam

Leading Cadet
32/2 Basic Navigation
Generated 23-Jul-02

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Mark:

	Han	black	or dark	blue per	. NOT	pencil.
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- 2. Mark one answer per question with a cross.
- 3. If you wish to change an answer, cancel the original mark and mark another single answer.

XIA	selected	answer.
	cancelled	

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Wing
9 Where on a M726 OS map is the Technical Information giving details of magnetic variation located:
a At the top of the map
At the bottom right side of the map
c On the back of the map
d On the extreme left of the map
10 What is the purpose of liquid in the capsule of a compass?
a Increases the needle's sensitivity
b Prevents the needle from moving
C Allows the needle to be seen more clearly
d Allows the needle to settle down quickly
11 The final step in setting a map with a compass is to:
a Turn the map only until it is pointing north
b Turn the compass only until it is pointing at north
Turn the map and compass together until the needle is inside the orientating arrow
d Turn the map and compass together until the needle is pointing south
12 When using a compass to take a bearing on a distant object you would first of all:
Turn the capsule so that the orientating arrow points at the object
b Point the direction of travel arrow at the object
c Align the red compass needle to point at the object
d Turn the capsule to subtract the grid magnetic angle

Name and Initals				
D	ate of Birth			
1	When navigating with a map, which			
	north must you always use for			
	reference?			
a	Magnetic north			
Ь	True north			
c	Grid north			
d	Actual north			
2	Setting a map is also known as:			
a	Clocking			
ь	Orientating			
c	Mapping			
d	Turning			
	Why is it important to set a map			
3	before using it in the field?			
a	So that a compass can be used to			
	follow the required direction over			
	the ground			
Ь	So that distances can be measured more easily			
c	So that features on the ground			
	seen by the observer can be easily related to features on the map			
d	50 that names printed on the map			
	may be read more easily			
4	If you are on the Isle of Wight on 21 November at 4 pm (GMT), and you hold your watch flat with its hour			
	hand pointing to the Sun - as in the			
	diagram - which arrow (E,F,G, or H)			
	points to the north?			
a	F			
Ь	lacksquare			
c	Н			
d	E			
	F f			
	11 12 1 E			
	10 2			
8 4				
	H Sun			

	Squadron/Unit
5	A freely-suspended magnetic needle will point:
а	To the geographical north pole
Ь	To grid north
c	Straight down to the ground
d	To the magnetic north pole
6	The Earth's magnetic pole is located:
а	In the same place as the grid north pole
Ь	Slightly north of Hudson Bay in Canada
c	In northern Siberia
d	In the same place as the true
7	What does this symbol represent?
a	Grid north
ь	True north
c	Map north
d	Magnetic north
	A THE COLOR OF THE
8	The angular difference between grid
	north and magnetic north is:
а	Magnetic variation
Ь	Magnetic difference angle
с	Grid variation
d	Grid magnetic angle

13	O5 map on which the magnetic variation is westerly, can be converted to a magnetic bearing by:	de is	egrees W, and Grid Magnetic Angle 5 degrees W. If the compass earing of a church is 350 degrees	22 a b	The diagram shows: Occluded front Isobar
а	Adding the angular difference between magnetic north and grid north		hat is its Grid bearing? 347 degrees	c	Warm front Cold front
Ь	Adding the angular difference between grid north and true north	b [343 degrees 348 degrees		
c	Subtracting the angular difference between grid north and true north		345 degrees Thilst walking over reasonably flat round a cadet takes 1hr to cover	٠	- Alex
d	difference between magnetic north and grid north		cm. How long will it take him to walk DOm at the same speed? 10 mins	23	Lines on a weather chart joining
14	When walking on a bearing in good visibility, the best technique is to:	ь	30 mins 60 mins	a	points of equal pressure are called:
a	Send a team member out 50 metres and walk to there	d [40 mins	ь	Occuled fronts
ь . с	Follow your compass and ignore the countryside Select an object 5 metres in front	th	hen navigating, in order to reduce e area of uncertainty to a minimum, u should:	c d	Warm fronts Cold fronts
d	and walk to it Select a distant feature that is along your intended direction of	a [Always follow paths Walk as quickly as possible to your	24	Upper winds are generally responsib
	travel	c	destination Measure distances and bearings as	а Б	The strength of the surface win
15	If you wanted to fix your position on a map by reference to prominent landmarks within your field of vision, what would give the best result?	d [accurately as possible Never follow contours	c d	Movement of a depression Poor weather
a	Three bearings crossing to give a small position triangle	20 An	attack point would be: Any trig point	25	When alto is used as a prefix in a name of a type of cloud, that cloud may be found at:
b c	Two bearings crossing Three bearings crossing to give a	b [_	Any prominent feature close to your objective Any prominent feature that can be	a b	Medium level Low level
d	large position triangle One bearing giving a position line	d [easily identified The summit of any hill	c d	High level Any level
16 a b	The 6 figure <i>G</i> R shown would be: 077 375 375 077	and	hich air mass originates in Siberia d brings to the UK warm weather in mmer and cold weather in winter?		
c	063 365	a [Polar continental		
d	365 063	b	Tropical continental Arctic maritime		
(II)	36 37	d	Tropical maritime		
	06 01 01 01 01 01 01 01 01 01 01 01 01 01		potenti wa g ana nata tengan ana d anata anaka mana ana dan manaka		
Martin					