

BOY SCOUTS HANDBOOK *The F*

Manufacturer of U. S. Army and National Guard Uniform

The Best Food for The Boy Scouts is



movement of interest to boys of all nations.

The BO

have helped

Honorary Viceap

PÃ

Martin Behrman
August Belmont
Ernest P. Bicknell

~~(viii)~~

E3 ~ s

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Dr. .

Dr. Benjamin Ide Wheeler
Eli Whitney
Mornay Williams
Gen. George W. Wingate
A. E. Winship
Henry Rogers Winthrop
Major-Gen. Leonard Wood
Surgeon-Gen.

him, and he grew up wi

whole library would be needed to cover the ground he wanted--what every boy wants--is a handbook giving the broad facts as one sees them in the week-end hike and in-air life. He did not want to know the trees as a botanist, but as a forester; nor the stars as an astronomer, but as a traveler. His interest in the animals was less that of an anatomist than Y

riding, swimming, tramping, trailing, photography, first aid, camping, handicraft, loyalty, obedience, courtesy, thrift, courage, and kindness.

Do these things appeal to you? Do you love the

longed for, in those far-off days when I wan ' s

REPTILES
INSECTS AND
BUTTERFLIES
FISHES AND ANGLING
AQUARIUM
ROCKS AND PEBBLES
FLOWERS, FERNS AND
GRASSES

Dr. Leonhard Stejneger
United States Bureau of
Entomology
Dr. Hugh M. Smith
Dr. Wm. Leland Stowell
United States Geological
Survey

GR. S, F. B. S. Tty

and that has marked the career of all good scouts.

To be a good scout one should know something about the woods and the animals that inhabit them, and how to care for one's self when camping.

{5}

The habits of animals can be studied by stalking them and watching them in their native haunts.

The scout should never kill an animal or other living creature needlessly. There is more sport in stalking animals = ~~div~~ in



Scout Stalking

By woodcraft a scout may learn a great number of things. He may be able to tell whether the tracks were made by an animal or by man, bicycle, automobile or other vehicle.

By having his power of observation trained he can tell by very slight signs, such as the sudden flying of birds, that someone is moving very near him though he may not be able to see the person.

{6}

Through woodcraft then, a Wings. He wocay avingnteaden .

{7} bed out of rough timber, or weave a mat of reeds

contra o bom futuro. Another way to do it. A=

In addition to these the scout should be a lover of his

which should be characteristic of him, if he is going to be the kind of scout for which the Boy Scouts of Am " C

others w

from th of ft h or o foo

to

Chief Scout and Staff.
Scout Commissioner.
Scout Master.

The sign of the north on the compass gradually came to represent the north, and pioneers, t

have qualified to receive badges designati.isignatto r

5. A scout is courteous.

He is polite to all, especially to women, children, old people, and the weak and helpless. He must not take pay for being helpful or courteous.

6. A scout is kind.

He is a friend to animals. He will not kill nor hurt any living creature needlessly, but will strive to

own way, be generous to those in need, and helpful to worthy objects.

He may be

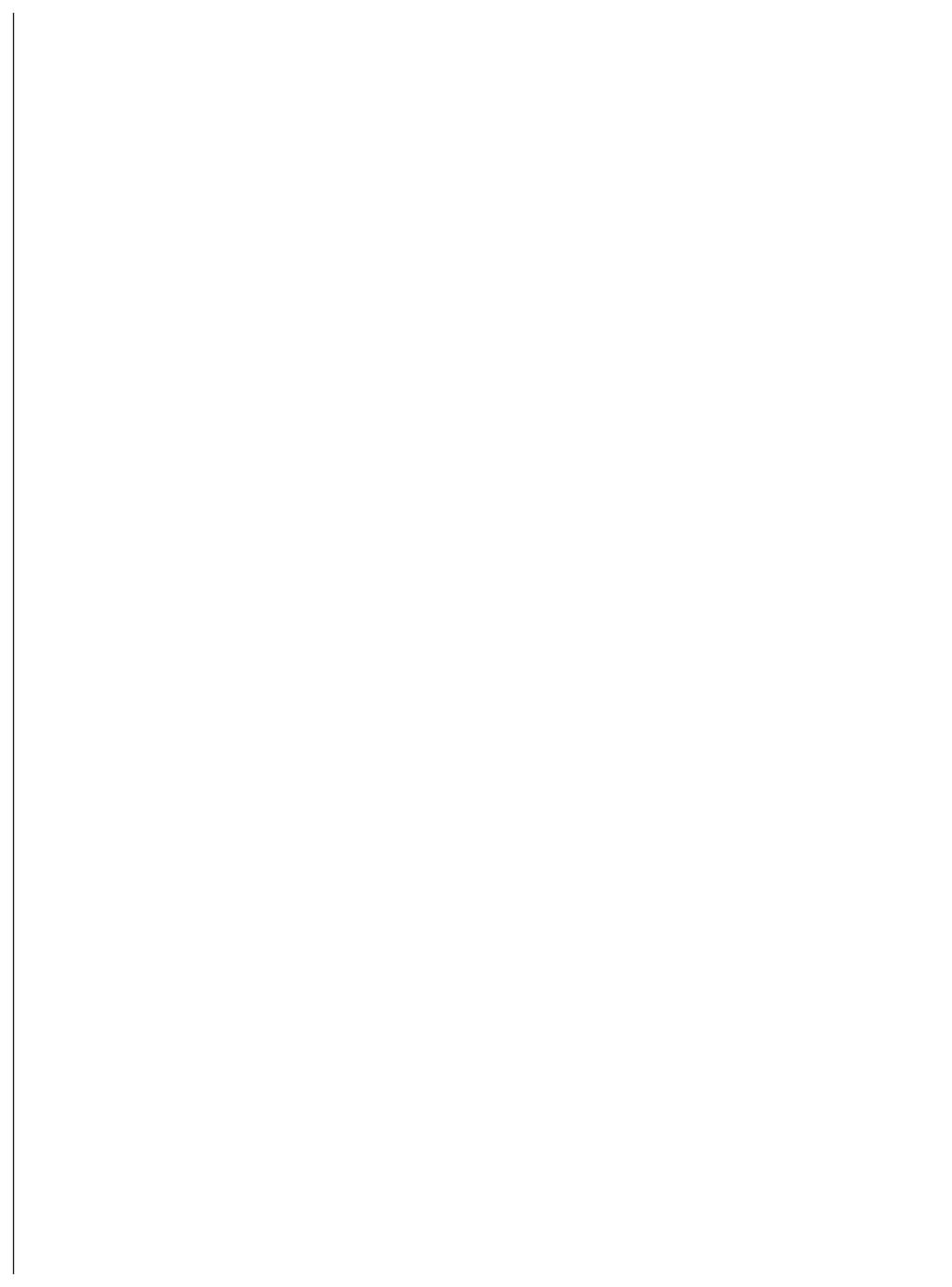
America, the tenderfoot, S^e 5

bend, bowline, fisherman's, sheepshank, halter, clove hitch, timber hitch, or two half hitches.

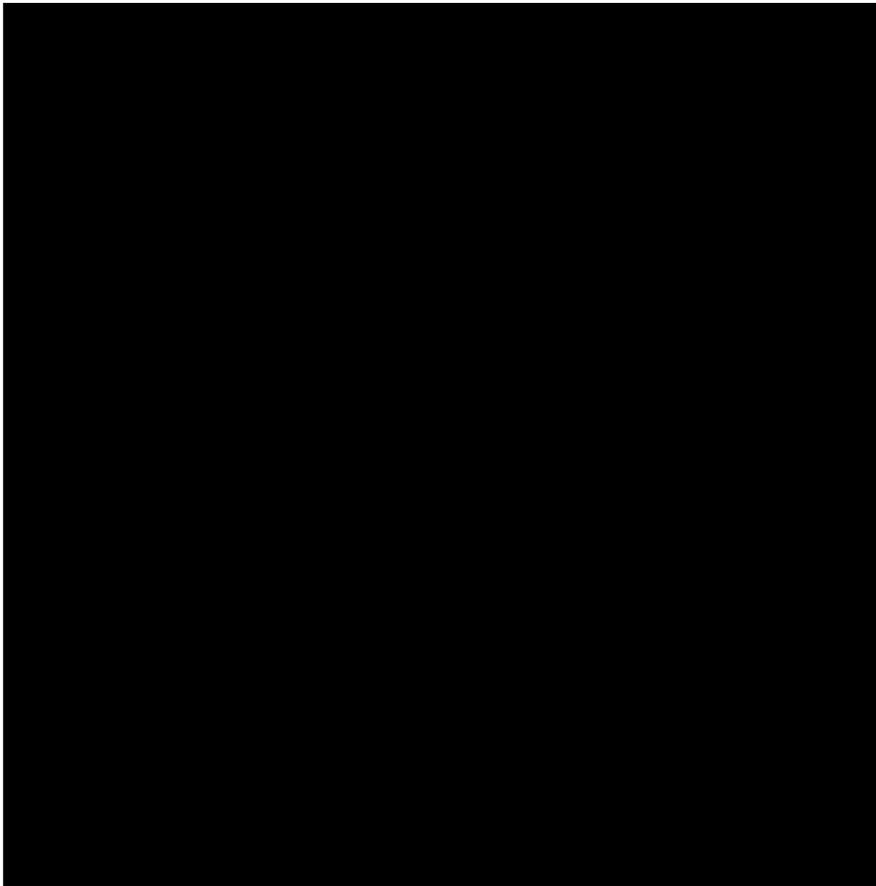
{17} .Is t is t s ~~A~~3 é t

He then takes the scout oath, is enrolled a el

1. At 1



inability, and the written consent of the National



A diagonal line from the top-left corner to the bottom-right corner.			
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The Merit Badges

(Result of work of Committee on Badges, Awards and
Equipment: Dr. George J. Fisher, Chairmwa



{24}

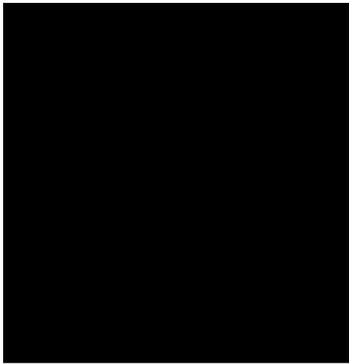
Agriculture

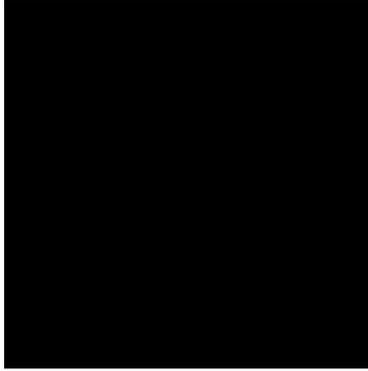


To obtain a merit badge for Agriculture a scout must

1. State different tests with grains.
2. Grow at least an acre of corn which produces 25 per cent. better than the general average.
3. Be able to identify and describe common weeds of the

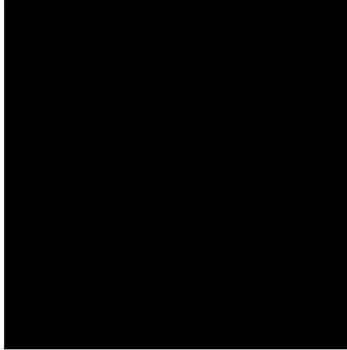
community and tell how best t

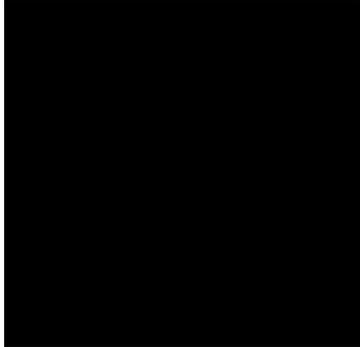




7. Dr rrr rrr rrr rrr m N, 1/2 rrr » rrr rrr, —

of





To obtain merit badge for Carpenit bad

3. Know how President, Vice-President, senators, and congressmen of the United States are elected.

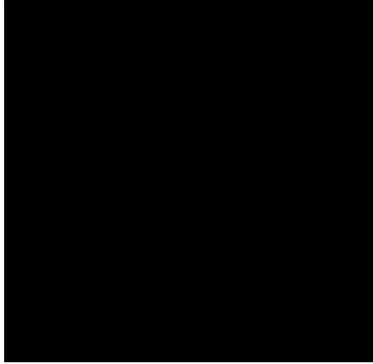
{30} provisions and history of the Declaration of Independence, and the Constitution of the United States.

flat country. Collect the seeds of two commercial trees,
c



To obtain a merit badge for Cooking a scout must

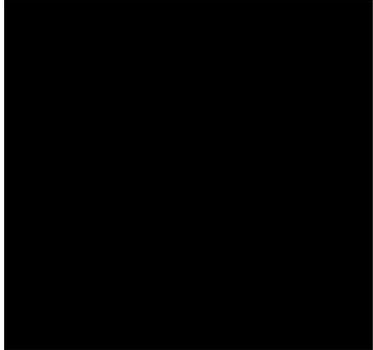
1. Prove his ability to build a fireplace out of stone or sod
{31} or logs, light a fire, and cook in the o=couc } or © tt ba



To obtain a merit badge for Cycling a scout must

1. Be able to ride a bicycle fifty miles in ten hours.
2. Repair a puncture

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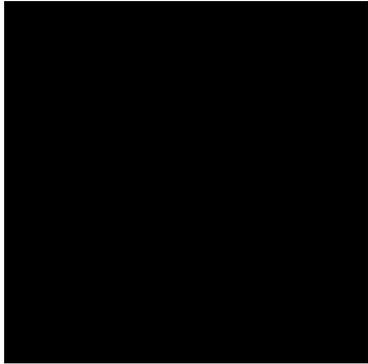
To obtain a merit badge for Electricity a scout must

1. Illustrate the experiment by which the laws of electrical attraction and repulsion are shown.

2. N s c i i i i l a

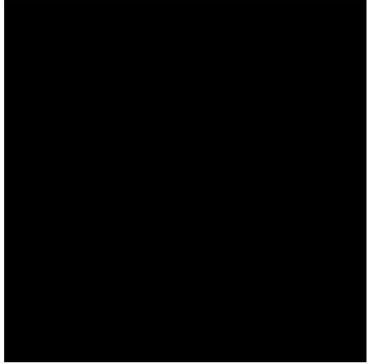
rescue of a person insensible from shock.

Firemanship



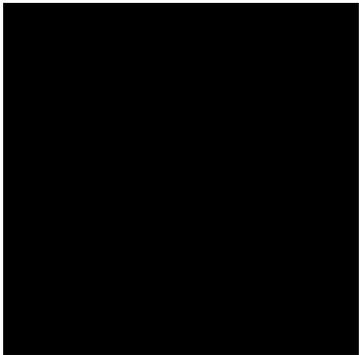
yf p spesso epJof m ssc p bclr e e b

4. Demonstrate that $\text{tr}(\mathbf{A}^2) = \text{tr}(\mathbf{A})^2$ if and only if \mathbf{A} is a scalar matrix.

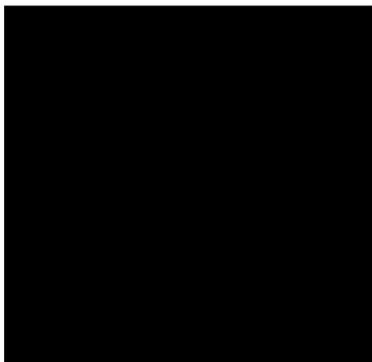


do not read this as a horse first aid course. To obtain a merit badge for First Aid to Animals a scout must

1. Have a general knowledge of domestic animals

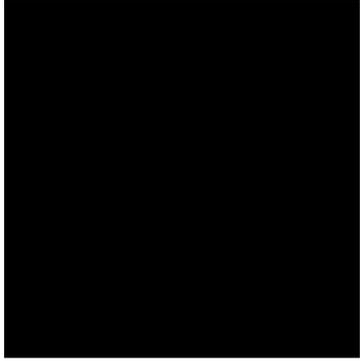


Gardening



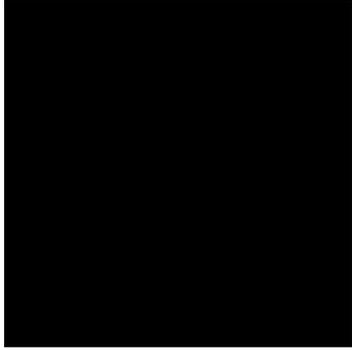
To obtain a merit badge for Gardening, a scout must

1. Dig and care for during the season a piece of c a pi



To obtain a merit badge for Handicraft a scout must have a project that is a

4. Know how to harness a horse \mathcal{C}^2 at a n n e \mathcal{S} }



To obtain a merit badge for Interpreting, a scout must

1. Be able to carry on a simple conversation.
2. Write a simple letter on subject given by examiners.
3. Read and translate a passage from a book or newspaper, in French, German, English, Italian, or any language that is not of his own country.

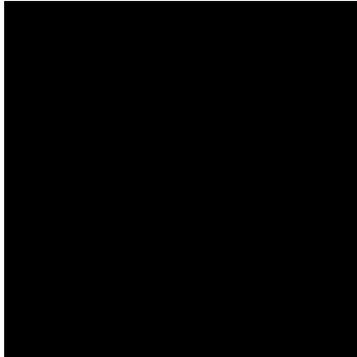
Invention



To obtain a merit badge for Invention a scout must

1. Invent and patent some useful article;
2. Show a working drawing or model of the same.

Leather Working



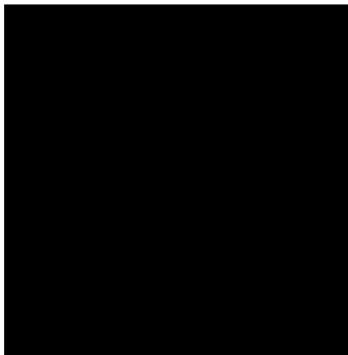
To obtain a merit badge for Leather Working a scout must

1. Have a knowledge of tanning and curing.

Marksmanship

2. Know, name and describe the fourteen great divisions of the earth's crust (according to Geikie).
3. Define watershed, delta, drift, fault, glacier, terrace, stratum, dip; and identify ten different kinds of rock.
4. Describe methods for mine ventilation and safety devices.

Music



To obtain a merit badge for Music a scout must

1. Be able to play a standard musical instrument satisfactorily.
2. Read simple music.
3. Write a W m s ndtam Wndest

5. Have daily notes on the nesting of a pair of wild birds from the time the first egg is laid until the young have left the nest.
6. Have attracted at least three kinds of birds, exclusive of the English sparrow, ~~one~~ of

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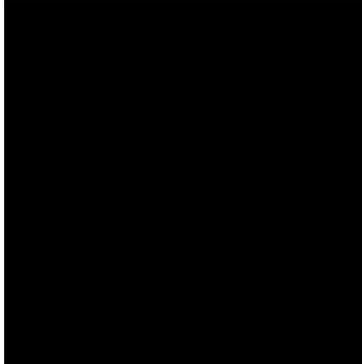
entered on a large scale map.

ENU

haunts; or a fish in the water.

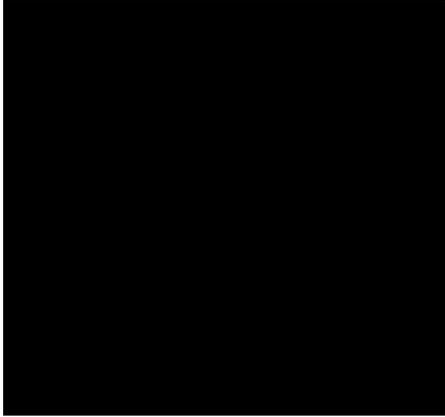
PioA

7. Tell how to plan the speech which will show the audience



To obtain a merit badge for Taxidermy a scout must

1. Have a knowledge of the game laws of the state in which he lives.
2. Preserve and mount the skin of a game bird, or p p p l i se

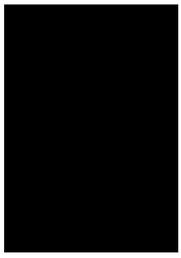


superimpose

Service Stripes: For each year of service as a by N c h i



Chief Scout: The badge of the Chief Scout is the first-class scout badge with a five-pointed star above it embroidered in silver.



Chief Scout's Sun The badge of the Chief

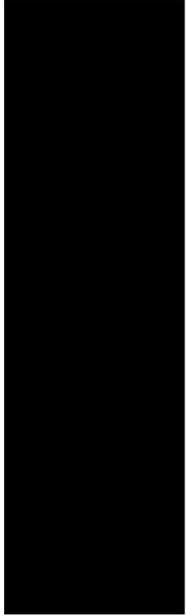
Appropriate badges for national and local councilmen may be secured from the National Headquarters.

Equipment

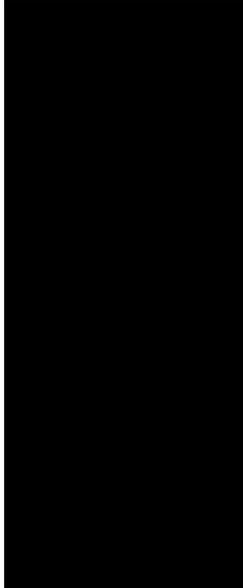
It should be clearly understood by all interested in the Scout Movement that it is not necessary for a boy to have a uniform or any other sprta - ble

usin

The commonest knot for tying two ropes together. Frequently
u



This knot is used in bending the s **Ò**endin

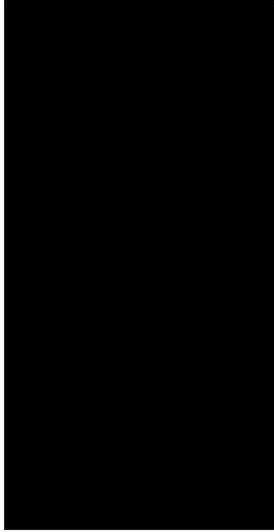




Used for shortening ropes. Gather up the amount to be shortened, then make a half hitch round each of the bends as shown in the diagram.

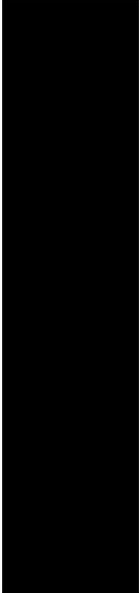
{51}

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Use to 33sto fã of ffas af a fo3ã3affú 3ffN aff f fas





forwards " 7

not ity w m s ✓

Used for tying silk-worms for rearing m s 3w s

East
East by South
East, South-east
South-east by East
South-east
South-east by South
{53}
South, South-east
South by East
South
South by West
South, South-west
South-west by South
South-west
South-west by West
West, South-west
West by South
West
West by North
West, North-west
North-west by West
North-west
North-west by North
North, North-west
North by West
North

NOTES

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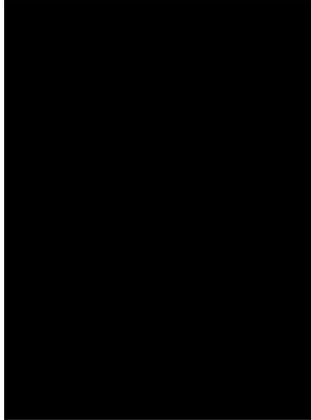
Notes

{55}

Notes

{56}

It iN " " t



Of course, it is hard to imagine that the boys will ever be so placed that it is important for them to take their latitude with home-~~work~~ or a l o

Next put on two lon

ends of the roof poles, as at A, B, and C (Fig. 7), pinning them to the side logs.

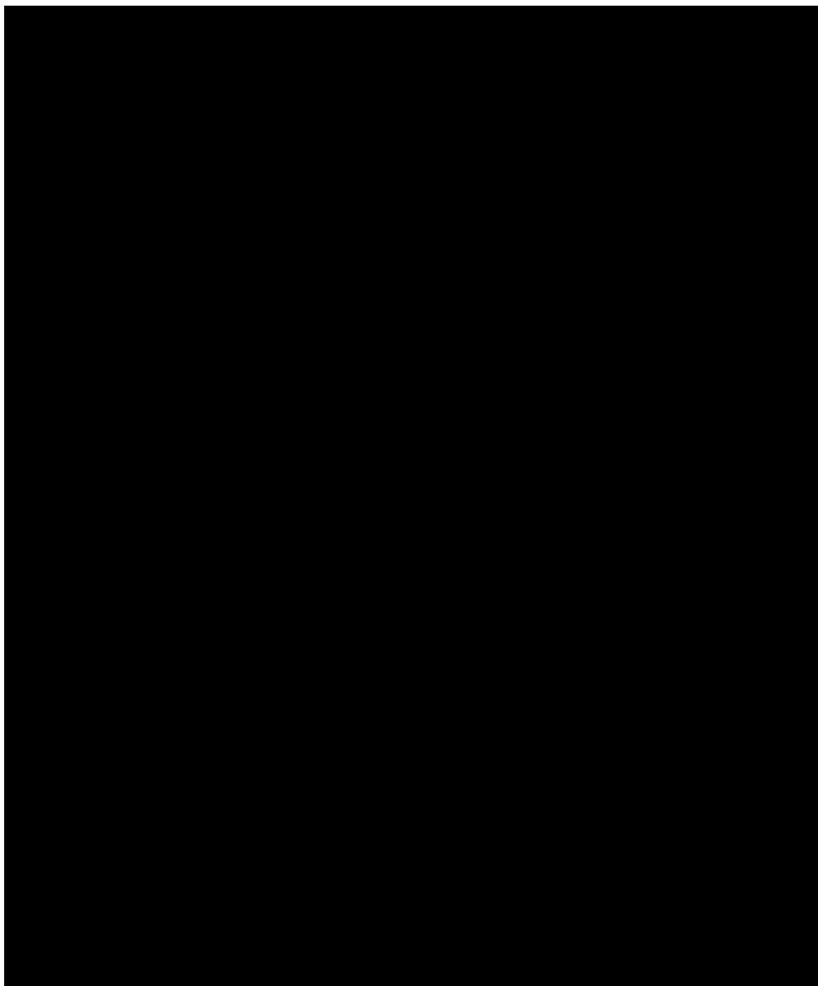
Cover this roof with a foot of hay or straw or grass, and cover {62} that again evenly with about four inches of stiff clay. Pack this dow3 â

build up {63} the flue behind the corner braces right up to the roof. The top corner-piece carries the rafter that may be cut off to let the flue out. Build the chimney up outside si upet

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(See "

these). The angle opposite the ten must be a true right angle.

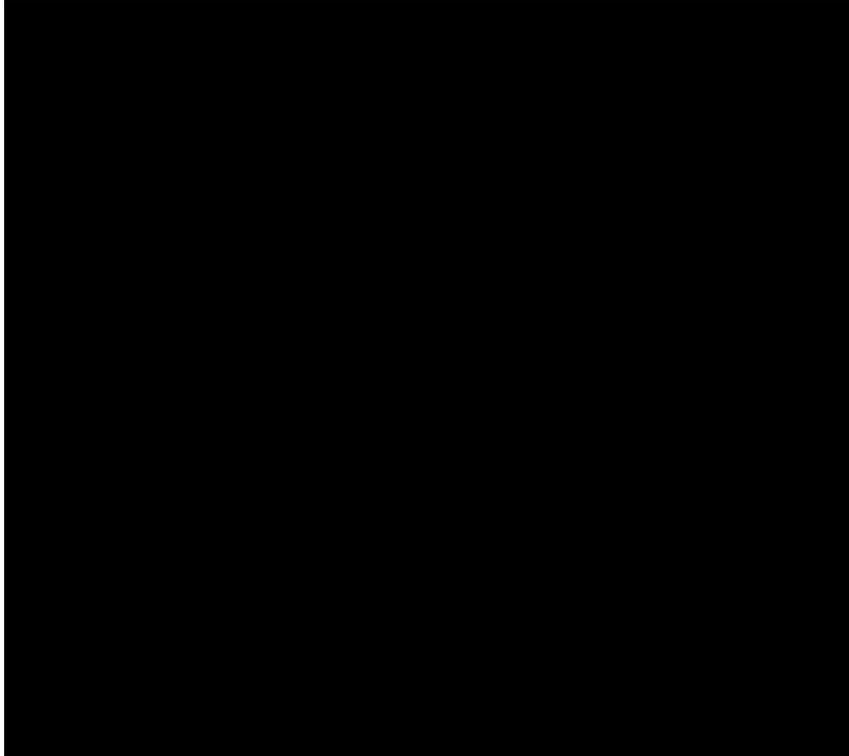


To make a right angle

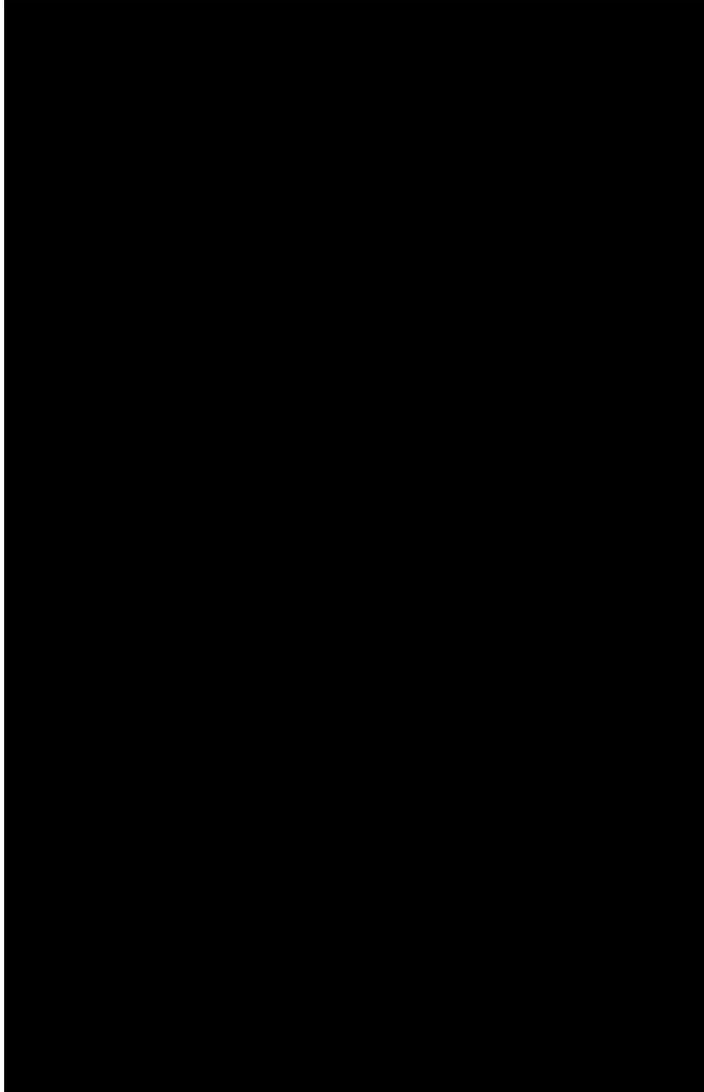
There are many ways of measuring distance across rivers,

etc., without crossing. The simpmpmpmpmp

mm



Another method is by the isosceles triangle. Make a right-angled triangle as above, with sides six, eight, and ten feet (A,B,C); then, after firmly fixing the right angle, cut down the eight-foot side to six feet and saw off the ten-foot side to fit. Place this with the side D B on the river bank in line with the sight object (X) across. Put three pegs to mark the three {66} corner places. Then take the triangle along the bank in the direction of C until C' D' are in line with the sight object, while B' C' is in line with the pegs B C. Then the length of the long base B C' will equal the distance d h l e e t i



Occa cc F tA

It is

If there is snow on the ground, you can follow your back tracks. Do for the other's i

If you see no landmark, look for the smoke of the fire. Shout for the side of the tree. Do not go to the Do not rest for hours it is quite possible you are within earshot of your friends. If you have a gun, fire it off twice in quick succession on your high lookout; then wait and listen. Do this several times and wait plenty long enough--perhaps an hour. If this brings no help, end up a d fhen Shou "~~~~~" iuit ut

wahlon dnd,rake nd,rg

half an hour's tramp we came to a canyon I had never seen before. I got out my compass and a match and found that I had been circling, as one is sure to do in the dark. I corrected the course and led off again. After another brief turn I struck another match and learned from the compass that I was again circling. This was discouraging, but with corrected course we again tramped. I was leading, and suddenly the dark

handy;

of this notch is such that it is useless to try fire-making without it.

While these are the essentials, it is well to get ready, also, some tinder. I have tried a great many different kinds of lint and punk, including a number that were artificially prepared, soaked with saltpetre or i oer.

Third: For the very reason that

wood--that is, doing a large part of the work. I am afraid that, deft as he was, he would have lost in a fair race. Yet this incident shows at least that, in point of speed, the old rubbing-sticks are not very far behind the matches, as one might have supposed.

{75}

It is, indeed, a wonder that the soldiers at West Point are not taught this simple trick, when it isCs wryleoed, ob

strung (Cut II). The no

VII. three feathers.

VIII. Part of arrow, showing feathering and lashing.

IX. Sanger hunting arrow with wooden point; 25 inches long.

X. Sanger war arrow with nail point and extra long feathers; it also is 25 inches long.

XI. Quiver with Indian design; 20 inches long.

XII. The "bracer" or arm guard of heavy leather for left arm with two laces to tie it on. It is six inches long.

{78}

The Indians made arrows of reeds and of straight shoots of viburnum or arrow-wood, and of elder, but we make better arrows out of the solid heartwood of hard pine for target use,

stores are more convenient. Some archers who practise al

The Stars

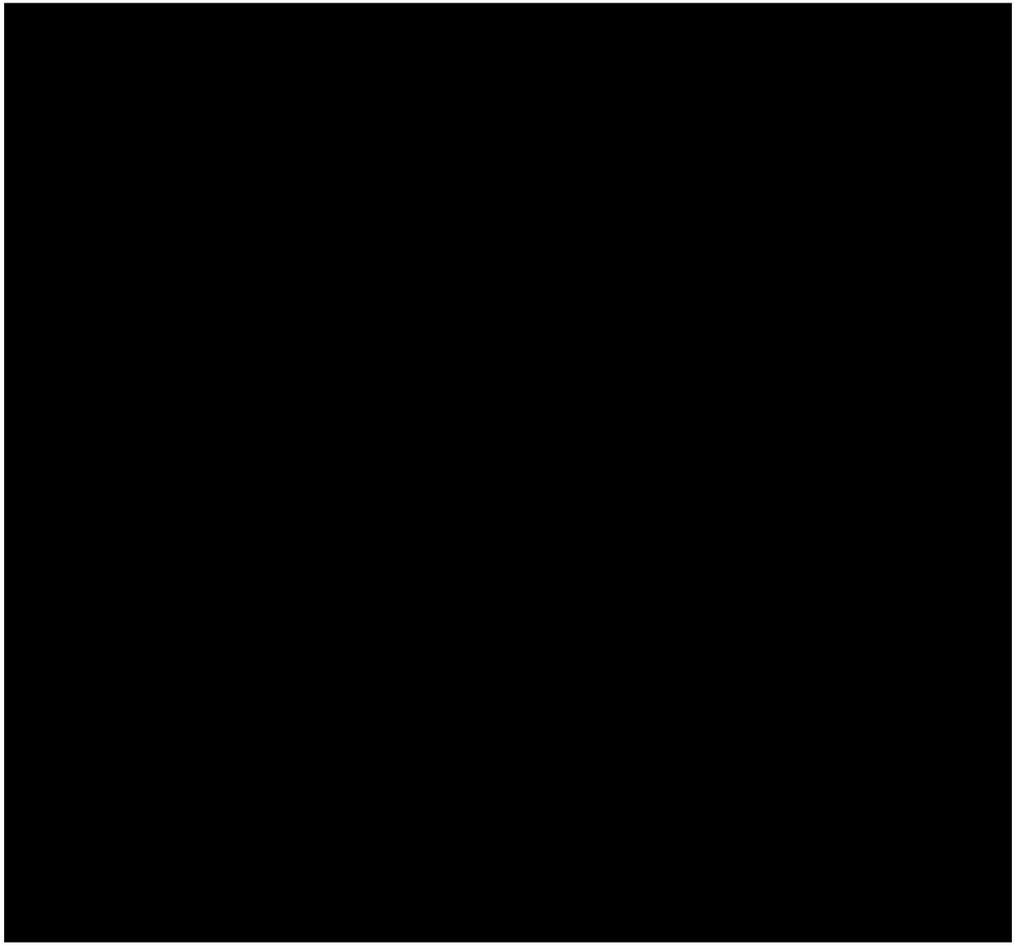
As Seen with the Galileo Telescope

of a day, or six hours.

{83}

Ea

12. Aldebar a



Pleiades

Ple

nearly three fourths of an hour each night; that is, it rises that much later.

BIRDCRAFT

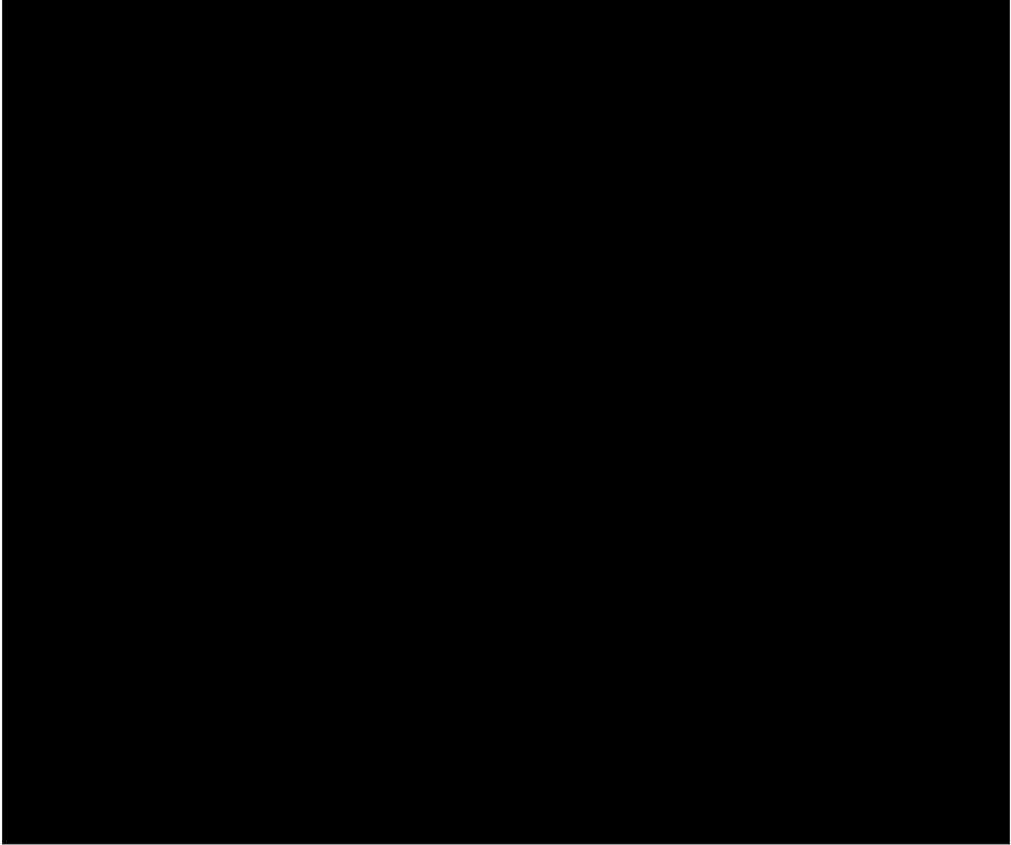
By the National Association of Audubon Societies

Any boy who cares enough for S



SIZE:
Smaller than aF

A scout should make a list of all the birds ~~3e~~ all the ~~th~~u

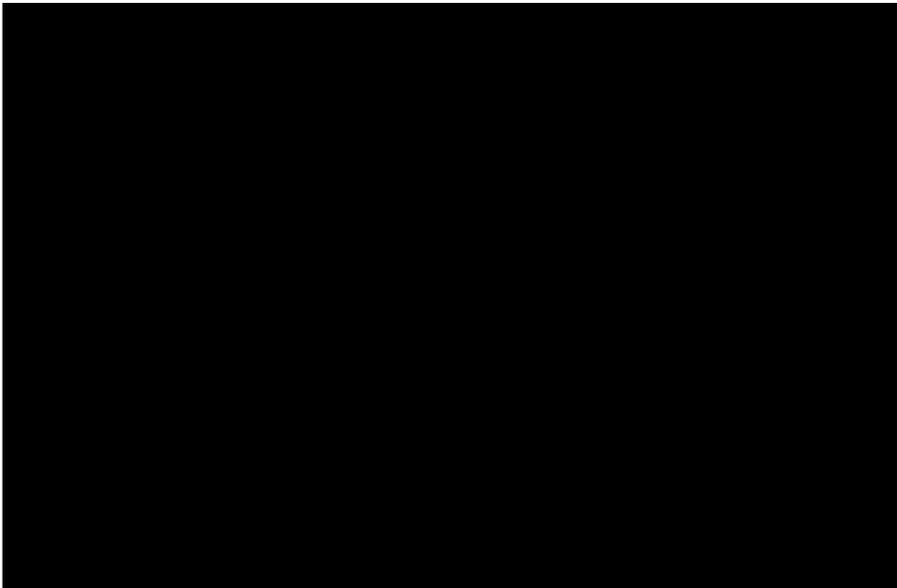


Bob-white at feeding station

Nesting Season

Undoubtedly the most important thing to you "C's" published is

would not be available

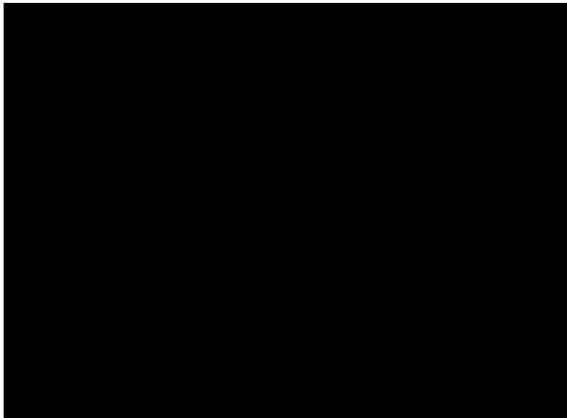


Bi

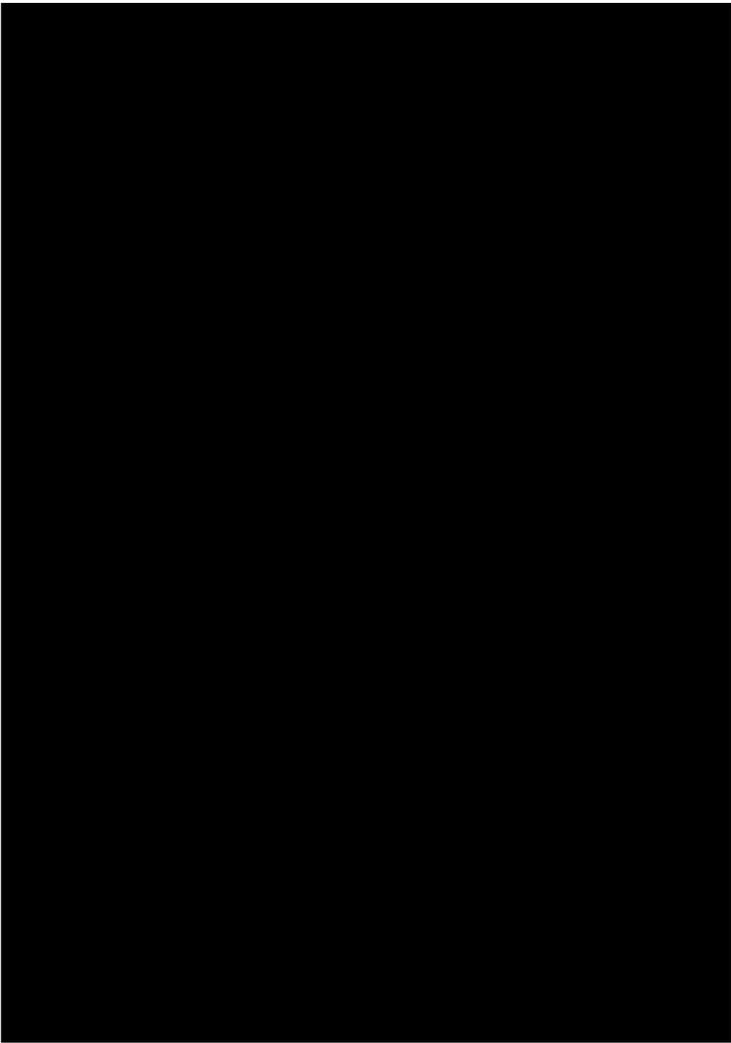
Season of song.)

8. Call notes. (Of surprise, alarm, protest, warning, signaling, etc.)
9. Season. (Spring, fall, summer, winter, with times of arrival and departure and variations in numbers.)
10. Food. (berries, insects, seeds, etc., how secured.)

a



Downy woodpecker



Observation box, open

Caring for Birds

Another way of attracting birds in summer is by providing

afford no end of diversion and instruction.

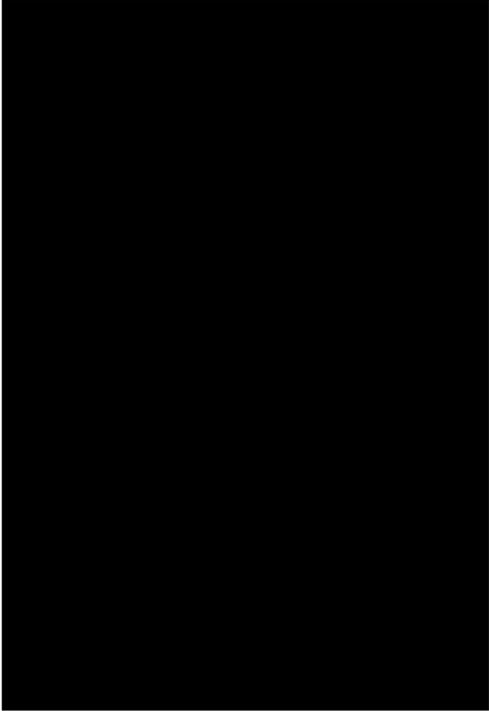
world (except deserts) is without them, but, =

gravelly bottom of streams. There is also a very numerous

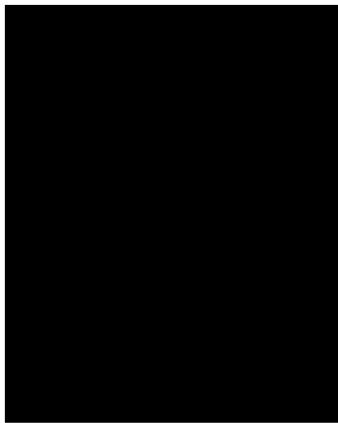


very hard to exp

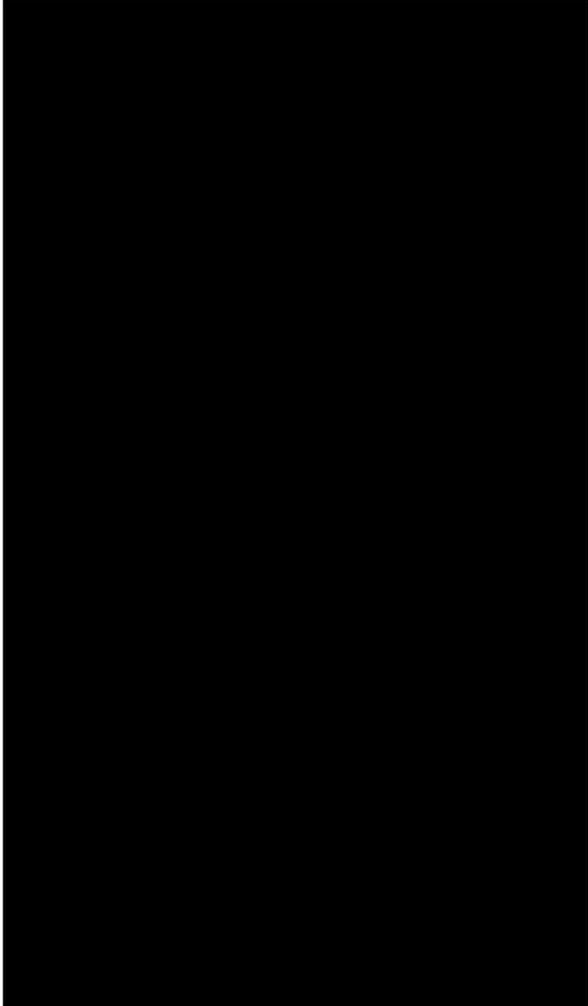
I



Empty chrysalis and [✓] «ñ P•ED®• 3



Fu u u u



C3

of flowering plants, and if we were to add together all of the different kinds of birds, mammals, reptiles, fishes, crabs, moll

Esox

and the catadromous. The anadromous fishes pass most of their

It should be the invariable practice of anglers to return to the water all uninjured

Aq

the 1990s, the number of people in the world who are poor has increased from 1.1 billion to 1.5 billion.

There are two main reasons for this. First, the population of the world has increased from 5 billion to 6 billion. Second, the number of people who are poor has increased in almost every country. In the United States, the number of people who are poor has increased from 25 million in 1980 to 35 million in 1995. In the United Kingdom, the number of people who are poor has increased from 5 million in 1980 to 7 million in 1995. In India, the number of people who are poor has increased from 1 billion in 1980 to 1.2 billion in 1995.

There are many reasons for this. One reason is that the world is becoming more unequal. The rich are getting richer and the poor are getting poorer. Another reason is that the world is becoming more dependent on technology. Technology is making it easier for the rich to get richer and the poor to get poorer.

There are many things that we can do to help the poor. We can give them money, we can give them food, we can give them shelter. We can also help them to get an education and to find a job. We can help them to become self-sufficient and to improve their lives.

There are many organizations that are working to help the poor. One of the most famous is the Red Cross. There are also many smaller organizations that are working to help the poor in different ways.

It is important that we all do our part to help the poor. We can all make a difference. We can all help to make the world a better place for everyone.

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Fold in stratified rock

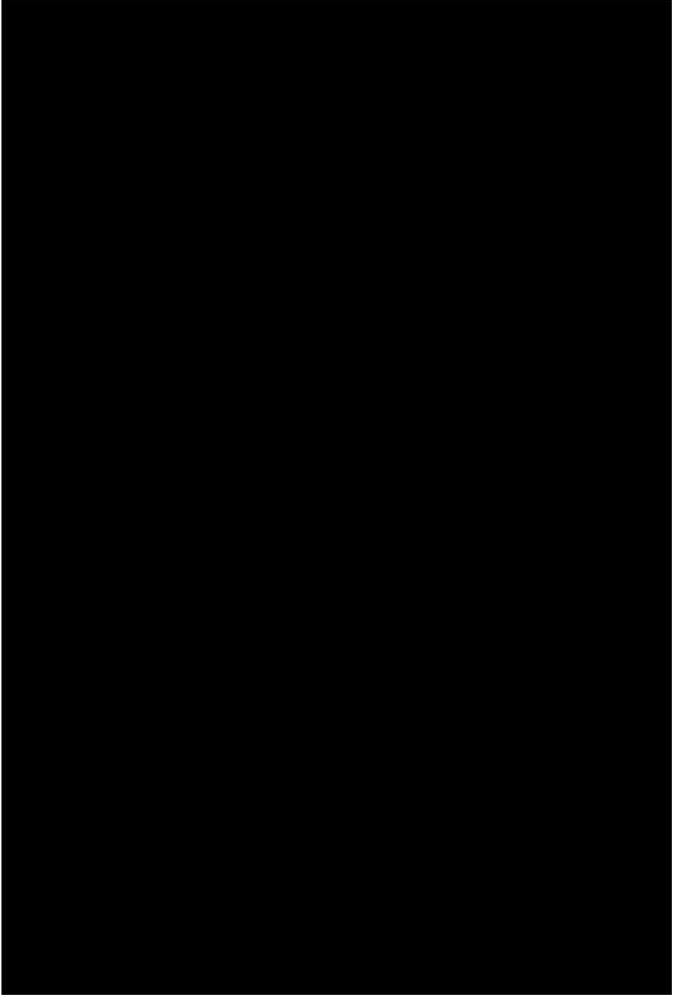
Wearing the soft and hard br a

covered by other beds, they become hardened into solid rock. If the layer

and the materials of the land are slowly being moved toward

been carved Faar FerFehow ar h

g i F



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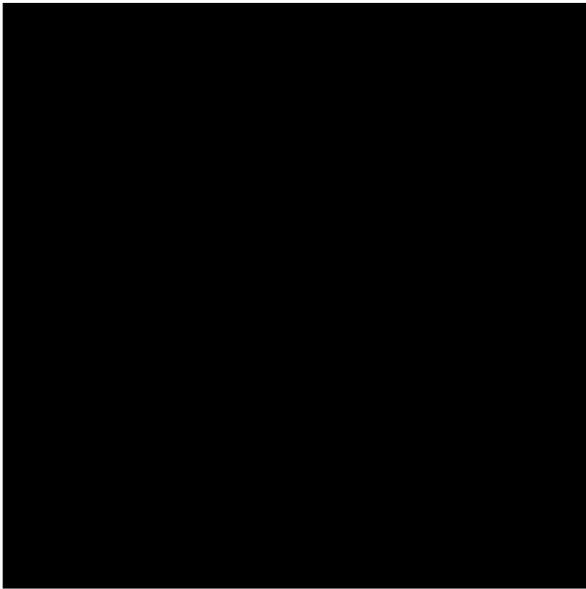
anywhere in the prairie region, and no means is known by which these representatives of a Rocky Mountain family could find their way into

resting parts throw out shoots and again make the round of growth, usually producing both seeds and underground parts for the preservation of the species. There are both wild and cultivated plants in nearly all sections of the world.

of

of

Fal



Golden clavaria

Poisonous Toadstools

Of all the poisonous toadstools 3

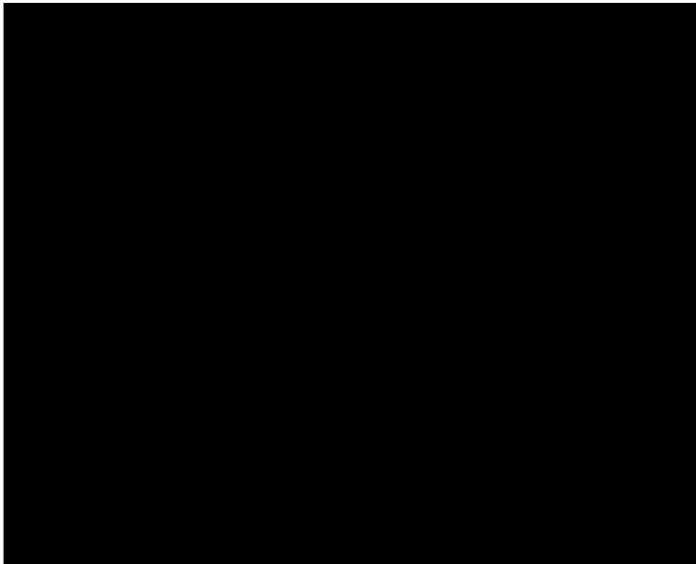
(Amanita phalloides)

One and one half to five inches across the cup; three to seven inches high; white, green, yellowish olive, or grayish brown; { 124 } smooth but sticky when moist; gills white; spores white; on the stem is an annulus or ring just below the cap.

Fly Ama

of danger.

Symptoms of Poisoning: Vomiting and purging, "the discharge from the bowels being watery with small flakes { 125 } suspended and sometimes containing blood," cramps in the extremities. The pulse is very slow and strong at first but later weak and rapid, sometimes sweat and saliva pour out. Dizziness, faintness, and blindness, the skin clammy, cold, and bluish, or livid; temperature low with dŸ f u,



E

4

IMPORTANT NOTE.--Experimenting with mushrooms is dangerous; it is better not to eat them unless gathered under expert direction.

The Common Mushroom
(Agaricus campep

woods; often it is less tall and graceful. The cap is one inch
{ 126 } to three inches. ~ ceta Ygra. h or gra h N on o h w

{ 1 h

One and a half to three inches high; greenish with brown hollows. There are several kindred species of various colors. This is known by the cylindrical shape of its cap. Wash, slice, and stew.



Morel

Puffballs
(Lycoperdaceae)

The next important and safe group are the puffballs before they begin to puff. All our puffballs when young and solid white inside. The next important and safe group are the puffballs before they begin to puff. All our puffballs when young and solid white inside.

persons.

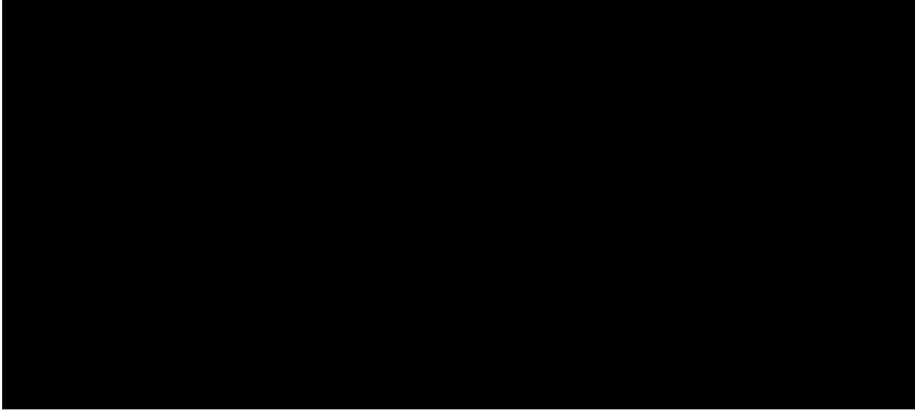


Brain puffball

Pear puffball

Cup puffball

They are well known to all who live in the count w theet



White pine

Hemlock

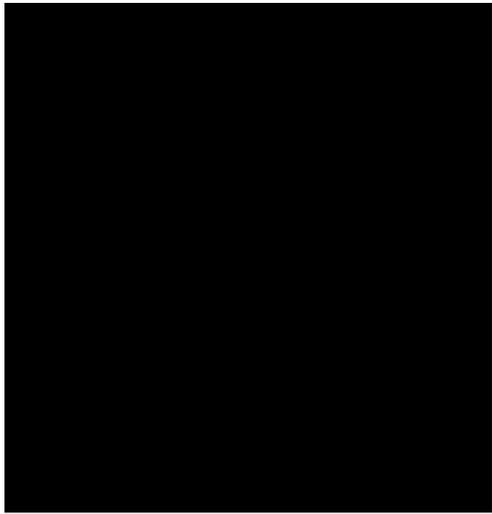
Red cedar

{128}

There are many different kinds of pines. They are best distinguished by the .sd

Cottonwood
(*Populus*

W i m m m



NATIVE WILD ANIMALS

This is smaller than the moose. It stands four to five feet at the shoulder and weighs four hundred to eight hundred pounds. It is known by its rounded horns and the patch of yellowish-white on the rump and tail. At one time this splendid animal was found throughout temperate America from the Atlantic to the Pacific, north to Massachusetts, the Ottawa River, the Peace River, and British Columbia; and south to Georgia, Texas, and southern California. It is now exterminated except in Manitoba, Saskatchewan, Alberta; Vancouver Island, Washington, Idaho, south r t

and fifty pounds weight. In the Southern xls weig



Antelope

Antelope
(Antilocapra americana)

The antelope is fam3G 9

Formerly the



Woodchuck

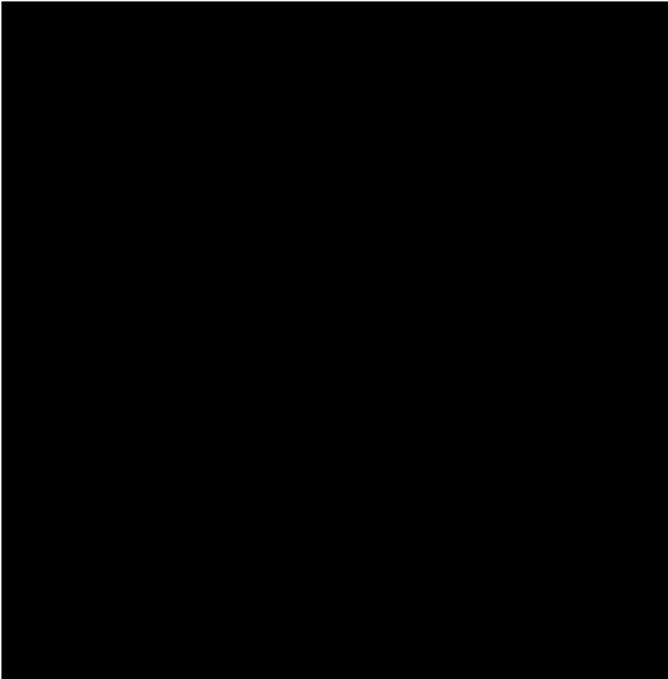
Woodchuck *(Marmota monax)*

The common woodchuck is a grizzly brown on the back, chestnut on the breast, blackish on the crown and paws, and whitish on the cheeks. Its sho

Beaver

(*Cas* *aza*)

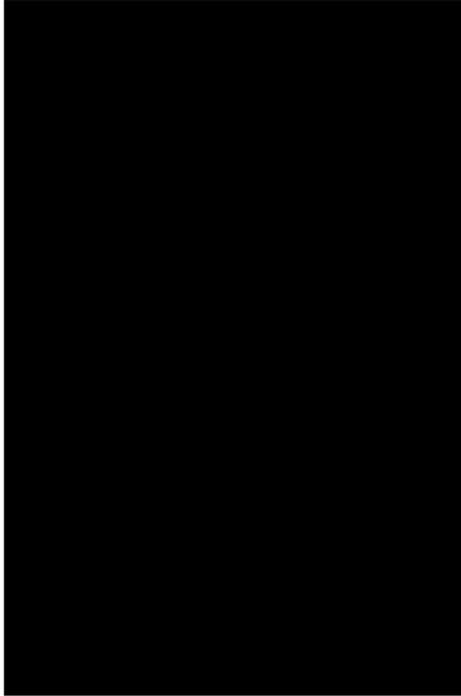
somewhat resembles the beaver, but its feet are not conspicuously webbed, its tail is long and flattened vertically, not {137} horizontally. This abundant animal is found throughout North America within the limit of trees wherever there is fresh water. It is the most abundant fur on the market.



Black-tailed jack rabbit

Jack Rabbit

Lynx
Wild cat or bob cat



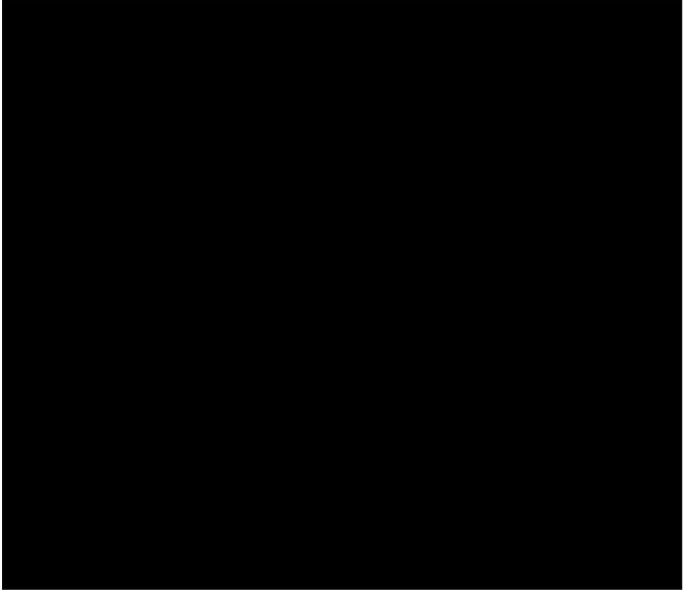
Wild Cat or Bob Cat

Wild Cat or Bob Cat

(; u us TT V TH a q ~~AAU~~

with locality. The Florida wolves a

the exception of white chin, throat, breast, and paws, and
black tip to the tail on the hind side, white except the tail



{144}

Notes

{145}

CHAPTER III

CAMPCRAFT

(In treating of camping there has been an intentional omission

the feet and proper way of walking.

It is well to carry a spare shirt hanging down the back lng dis

a

On the floor of your lean-to lay a thick layer of the fans or
branches of a balsam or hemlock, with the convex side up,
and

etc., as needed, and will be found good "bed warmers."
Whsf

which a strap with a buckle has been attached, which is run through the loops at the back of the camera case. The camera may be used c

Boiled: Have water to

Cocoa

Allow a teasp

can stay upon the bank or sit in the boat for the purpose of preventing accidents by drowning. There are also a hundred and one things which will occur in camp when the need of a man's help will show itself. A scout ought to insist on his scout master going

pebble in your mouth. This ur 3e l u u

swimmer. The change is too quick for the organs, the process of digestion stops, congestion is apt to follow, and then paralyzing cramps.

Indian Bathing Precaution

The Indians have a method of protecting themselves from cramps. Coming to a bathing pool, an Indian swimmer, after stripping off, and before entering the water, vigorously rubs the pit of the stomach with the dry palm of his hands. This rubbing probably takes a minute, then he dashes cold water all over his stomach and continues the rubbing for another minute, and after that he is ready for his plunge. If the water in which you are going to swim is cold, try this method before plunging into the water.

Good Bathing Rule

The rule in most camps regarding entering the water

South wind brings heat.

Direction of the Wind

The way to find which way the wind is blowing is to throw
u, inhoolnh tuity3oy

How to Get Your Bearings

If you have lost your bearings, and it is a cloudy day, puA

Be sure to get a copy of the laws of your state regarding



Forbids setting of ~~the~~ **Re** **oods** **nd**

In the winter time, when the wood dries on the wall

him and wondered: " i od ě o mod ro

Water.

A bitter cry broke from Wo's parched lips. His long trail was useless. There was no answer to his questions. The s.

they took a hatchet an anra.am..ok a A ..3k

a good fly or a good ground cloth for any of the tents.

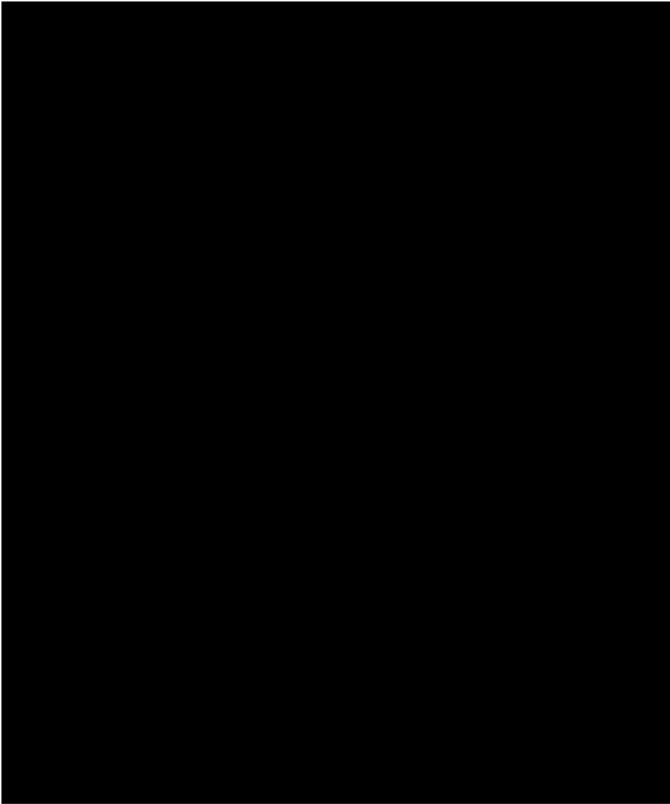


Fig. 1. Tent from a square of canvas.
7 x 7 sheet is ample for a one-man shelter; 9 x 9 will house
two.



Fig. 111 - A rec

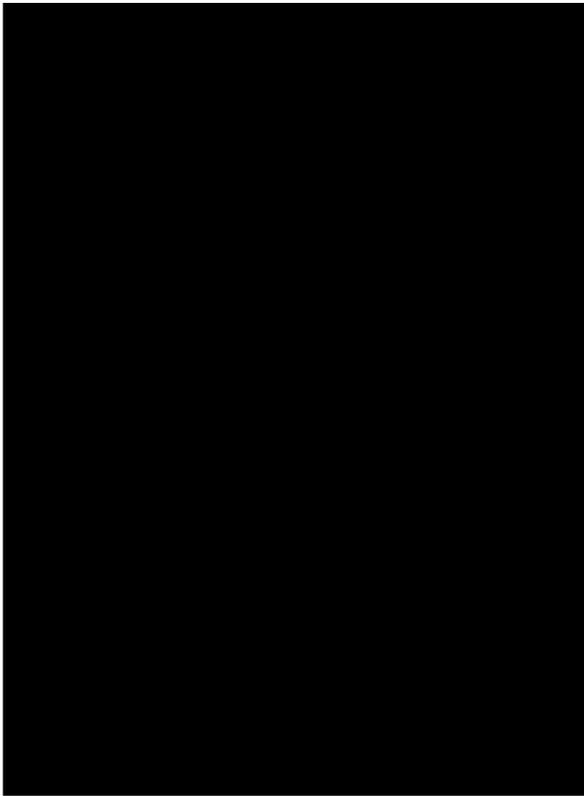


Fig. 5. The toque tent



Fig. 6.--Square or "miner's" tent. Two corners are turned 

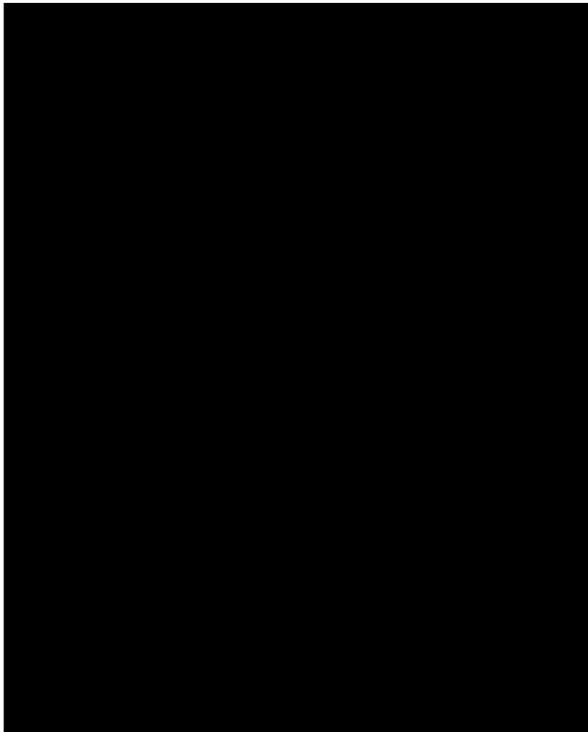
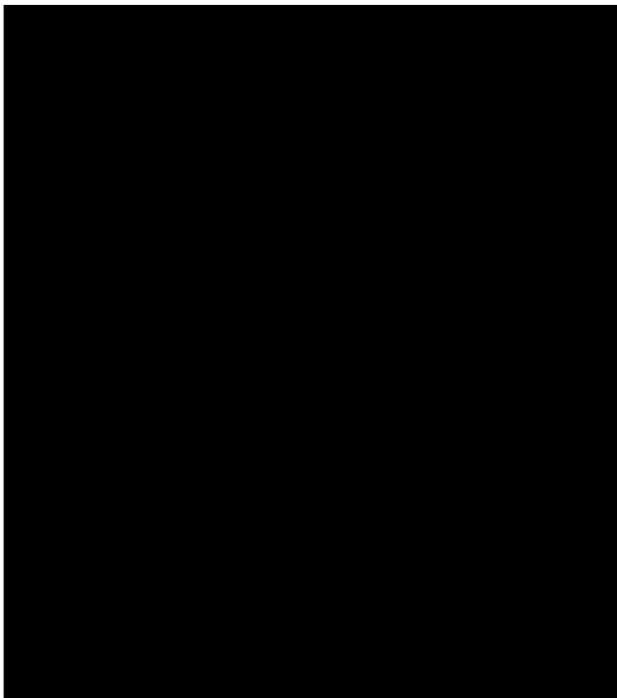


Fig. 6. Miner's tent



Fig. 7.--Conical tent or "wigwam," entirely enclosed, with door in front. Two corners of the canvas are turned under.



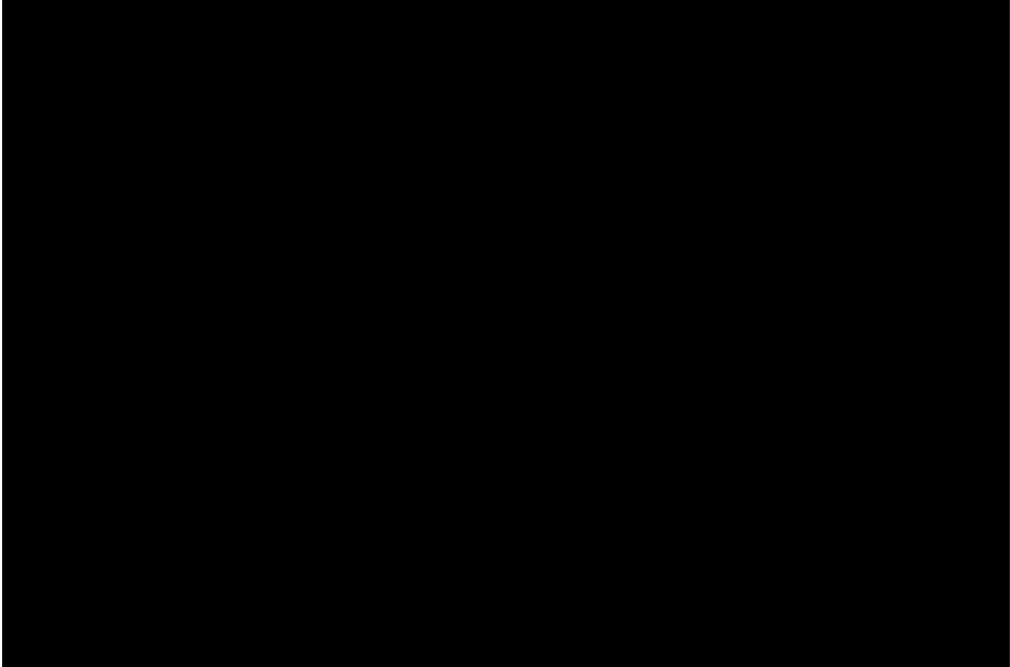


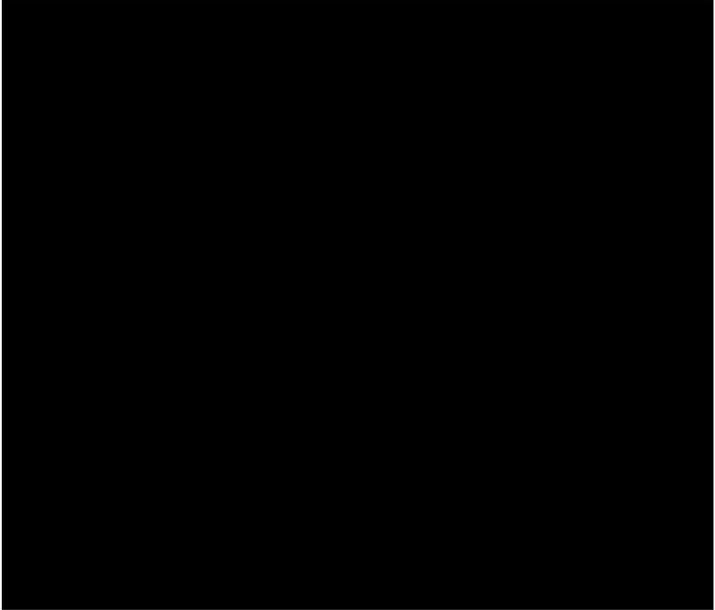
Fig. 12. Showing how $te^3te^{\overline{t}}te^3$ $i\overline{F}w$

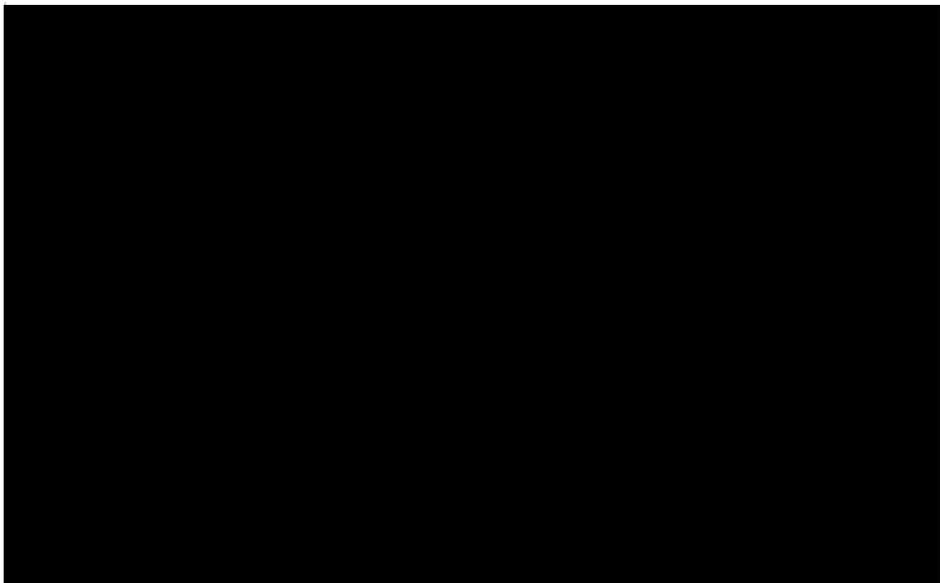
however, as the F \sim

canvas begi vi

inside

in it you will come home with your lungs so full of ozone that





Canoe with sail

The Lateen sail is made in the form of an equilateral triangle, and two sides are fastened to spars which are connected at one end by a hinge or jaw. The mast--which should be set well forward--should be so long that, when the sail is ~~raised~~

The spars and mast of a sa

{ 180 continued }

Row-boats

There is a certain caution in the use of boats which you will always find among sailors and fishermen and all persons who are using them constantly. Such a person instinctively steps into the middle of the boat when getting in, and always sits in the middle of the thwart or seat. This is a matter of instinct with seafaring people, and so is the habit of never fooling in a boat. Only landlubbers will try to stand up in a small boat while in motion; and, as for the man who rocks a boat "for fun," he is like the man "who didn't know the gun was loaded."

Rowing

Row-boats are propelled either by rowing or by sculling; and rowing is either "pulling" or "backing water." The usual way of rowing is to "pull" and to do so, you sit with your back to the bow and propel the boat by pulling the handles toward your body and so pressing the blades of the oars against the water toward the stern.

feet against a brace. In backing water you reverse the action of the oars, pushing the handles away from your body and pressing the blades of the oars against the water toward the bow.

Turning

To turn your boat to the right, when pulling, you row only with the left oar; or, if you wish to make a sharp turn "pull" with the left oar and "back water" with the right. To turn your boat to the left the action of the oars is reversed.

Feathering

To prevent the momentum of the boat from being checked by the wind blowing on the blades of the oars, the blades must be turned into a horizontal position as they leave the water. In "pulling" this is done by turning the hands backward at { 181 } the wrist, and in backing water it is done by turning the hands forward at the wrist.

Sculling

To scull is to propel a boat by ō ked hAEcccccto p pr – O

angl

a

possible at right angles with the direction of the wind. We must remember, also, that, while the sail must be kept full, it should not be kept more than full; that is, its position must be

suc3C

poss

mast.

{185}

Notes

{186}

penalty of failure is o un ry till you in yo

{191} hours

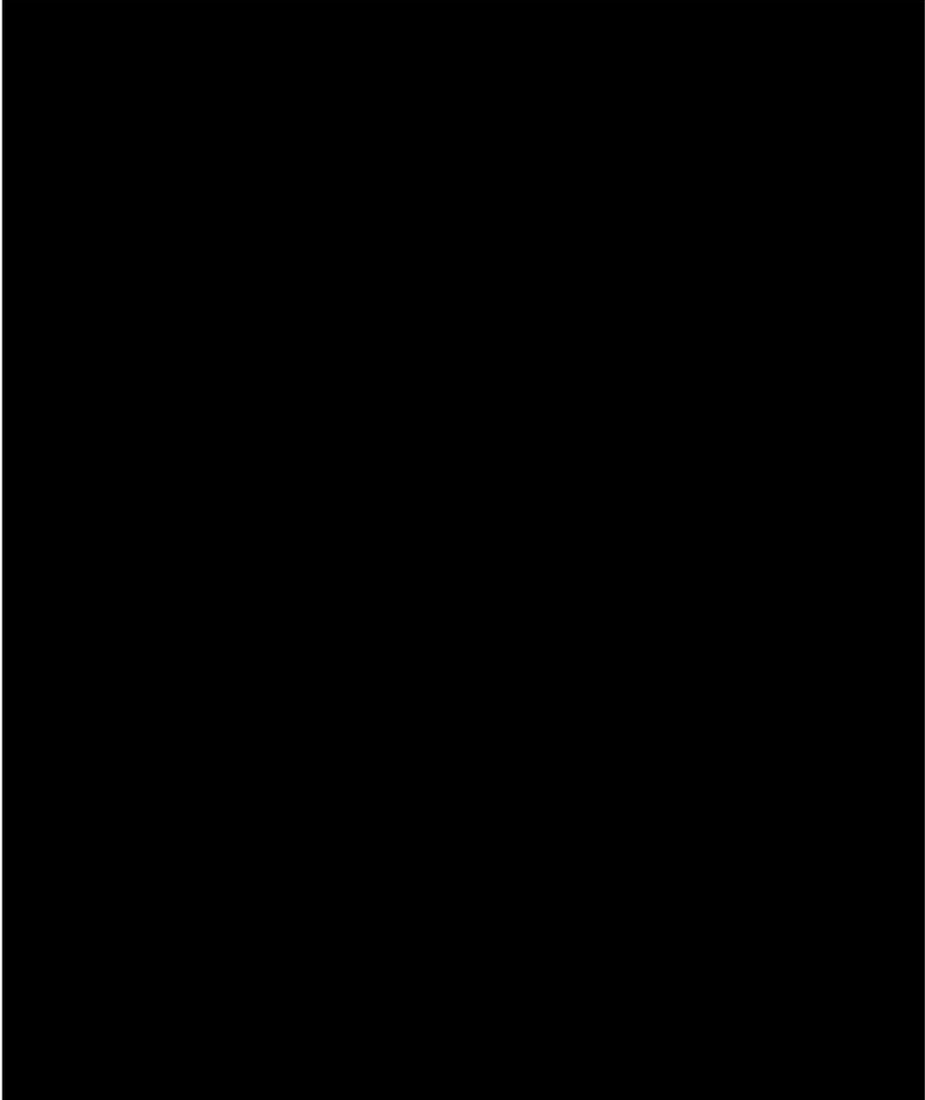
The

by some animal." "That is the track of a cottontail," was the answer. "NS

As the pile was large and the conclusion more or less self-evident, my brother was content to accept my reading of the episode.

What About Winter Sleepers

Although so much is to be read in the wintry white, we cannot now make a full account of all the woodland four-foots, for there are some kinds that do not come out on the snow; they sleep more or less all winter.



Dog tracks, front and ~~back~~ ~~og~~ ~~tf~~-front and ~~o~~

Middle, l , eed , , e ,e lei , ,

How often I have wished for a perfect means of transferring these wild life tales to paper or otherwise making a permanent collection. My earliest attempts were in free- u

artist's attentio

pressure. Thi

promising for a black track study, and her owner's two boys volunteered to get all the cat tracks I needed. They put down a long roll of paper in a hall, painted pussy's feet black, and proceeded to chase her up and down. Her docility banished under the strain. She raced madly about, leaving long, useless splashes of black; then, leaping to a fanlight, she escaped up stairs to take refuge in a garret.

Thus each of the three Ca "

TRACKS

1. Blarina in snow
2. Deermouse
3. Meadow mouse
4. Masked shrew

Wild ,

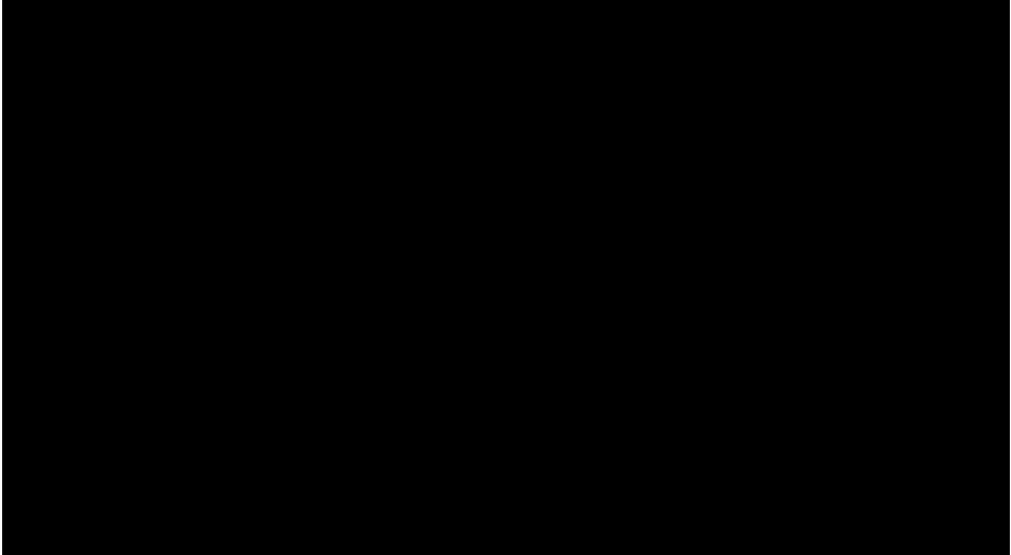
Signals

4. Start me.

5. Have you anything for me? T

9. Transfer (important Military
mess

Tr



From A to B in both figures, illustrates method of making a dot.

A complete swing from A to C in both figures indicates method of making a dash.

Wig-Wag or Myer Code

Instructions for Using the System

The whole number opposite each letter or number stands for

--	--

To Signal with Flag or Torch Wig-Wag

There is but one position and three motions.

~~There is but one position and three motions.~~

To signal with dr

To Send a Message

To call a station u μ úti uó caastatu ul uEuúti uS

{208}

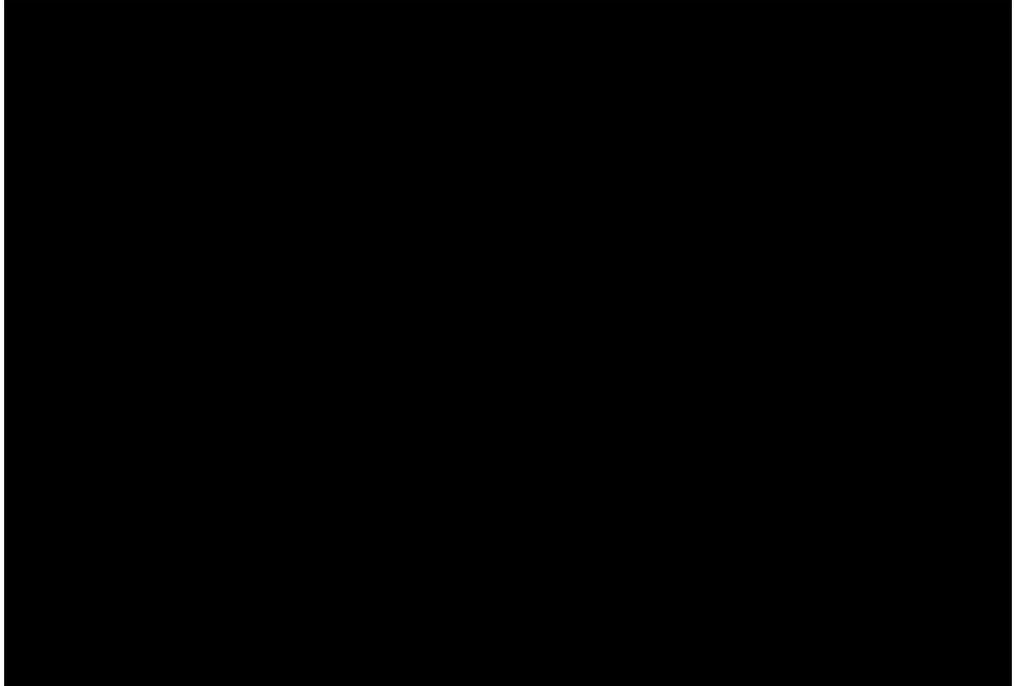
The letters A to I also stand for the figures 1 to 9 (K standing for 0), if you make the numerical sign to show that you are going to send numbers followed by the alphabetical sign (J) when the figures are finished. They will be checked by being repeated back by the receiving station. Should figures be wrongly repeated by the receiving station the sending station will send the "annul" sign (which is answered by the

2. Two short blamh wh o

“

Hand or f d and a d rad fo r d f d

Staff held up horizontally, that is, level, with both hands



The first thing toing gttt

should begin.

1. A pair of watch-case receivers having a resistance of 1,000 ohms each, manufactured by a reliable firm.

2. A variable capacitor tuning coil of about 800 meters.

3. One of the condenser sets mentioned above or one of similar design.

4. A variable condenser of about 5-10 plates.

5. A fixed condenser so arranged that its capacity can be changed in degrees.

Now you have everyt

well insulated with glass, porcelain, or hard rubber.

The tuning coil is very simple in construction. A cardboard tube, about three inches in diameter, is mounted between two square heads. This tube is wound with No. 24 insulated copper wire and very well shellaced to a3adsXia

{213}

The detector, although the most important of the instruments,
is perhaps the simplest. It is the simplest of the instruments

ther re~~he~~ he t e h e e ther e

The sending condensation $\rho_s \gg \rho_c$ is the ceiling

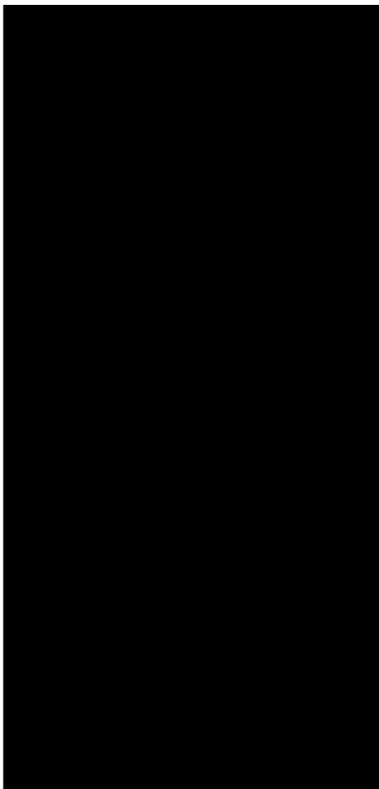
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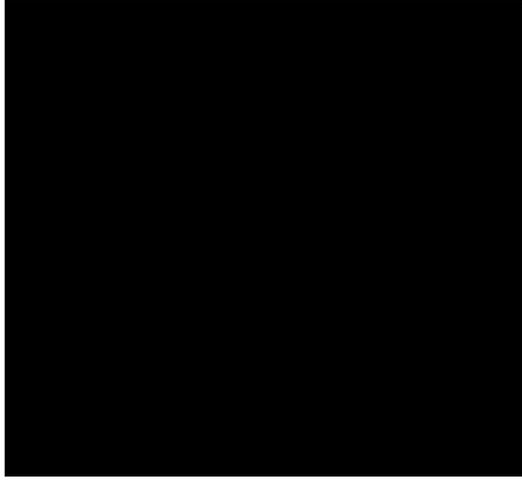
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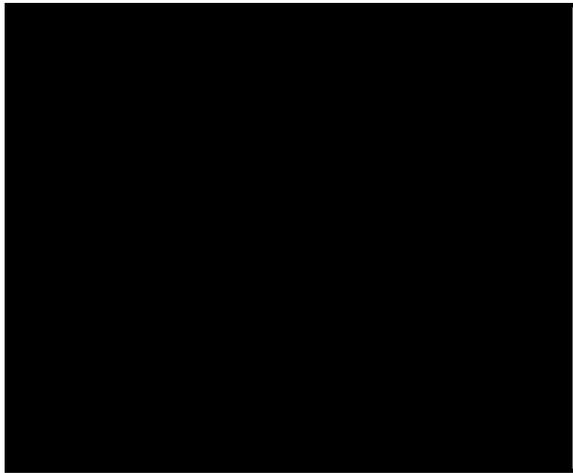
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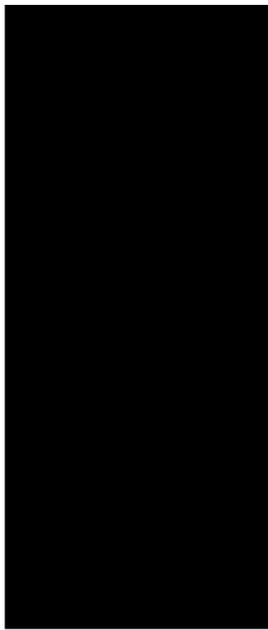
Exercise 3

PY



n 37 à Csn3

Exercice 7cise 7cise 7cise 7



Exercise 8b

Movement: Bend forward as far as possible, without bending knees, and return.

Setting-up Exercises

Movement: Raise high on toes. (Hold shoulders back firmly)



Exercise 15

Position: Same as Exercise 10.

Movement: Full knee bend.

Setting-up Exercises

Growth

The chief business of a boy is to grow. He may have other affairs, but this is his chief concern. He should, therefore, have a few simple rules for living and make h f e us

Out-door Exercises

Each day should have its out-door exercises. Walking is a splendid form of exercise. Walk to school or business; don't ride unless absolutely necessary because of unusual distance. Walk with a good, swinging stride with chest well up and spine fairly straight. ~~legidmf~~

nothing

this acts as a good

with both eyes and with each eye Ct v ti Y with

objects like peas or beans swell if made wet. In swimming water is apt to get into the ear and cause annoyance. A rubber ear stop can be secured and placed in the ear at the time of swimming, thus keeping the water out. Cotton should not be stuffed into the ear to keep water out, as it may get inside.

One thing t ĩnto tu p er pab swe eat anno b

that fit loosely, will cause callouses or corns. The way to get rid of these is

{237}

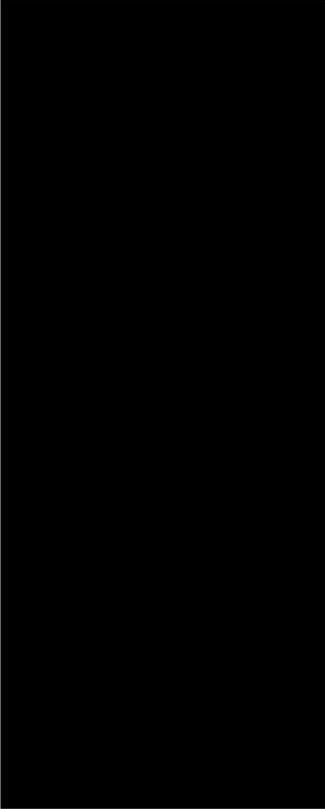
who called themselves knights had none

CHAPTER VI CHIVALRY

By John L. Alexander, Boy Scouts of America

Ancient Knighthood

A little over fifteen hundred years ago the great order of knighthood and chivalry was founded. The reason for this was the feeling on the part of the best men of that day that it was the duty of the stronger to help the weak. These were the days when might was right, and the man with the strongest himself pleased, often oppressing the poor and riding rough shod without any regard over the feelings and affe



Ancient knightly knig

of men was born and a new kind of knig

primeval forest; and such other things as are classed under the general term of woodcraft. And, with all this under

of to-day is different from both, but the need of chivalry is
very much less. The Magistrate has to make right, and while
there are now no robber barons or outlaws who own sale

tri

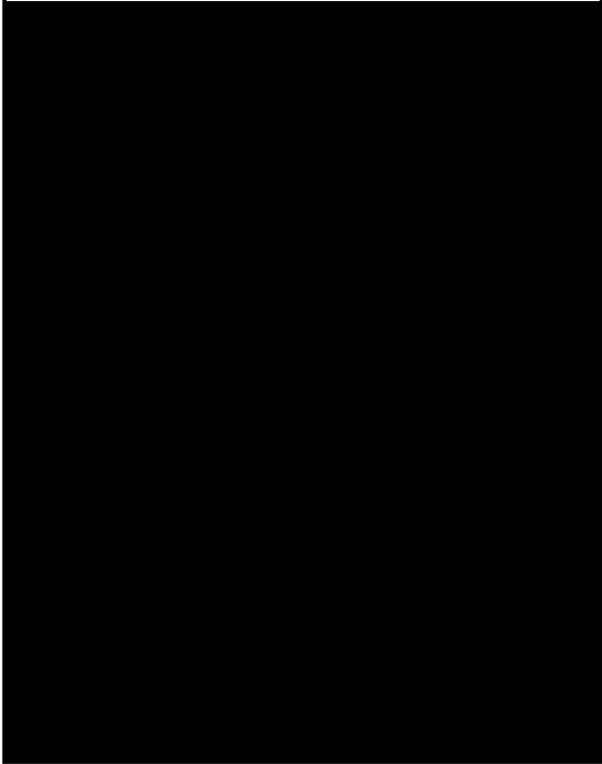
t3 herNh

Good Manners

The same thing that entered into the training of these men, knights, pioneers, and Lincoln, then, must enter into the training of the boys. What the must enter into

some one every day." So the prince followed the magician's advice and became the happiest boy in all the king's realm.

To be a good scout one must remain cheerful under every circumstance, bearing both fortune and misfortune with a smile.



Cheer up

Character

If a scout is cheerful, follows the advice of his
sd

"Twelve c

him in his training, thus making them a part of his life:

- Unselfishness: The art of thinking of others first and one's self afterward.
- Self Sacrifice: The giving up of one's comfort, desires, and pleasures for the benefit of some one else.
- Kindness: The habit of thinking well of others and doing good to them.
- Friendliness: The disposition to make every one enjoy our

Loyalty:

The quality of remaining true and faithful not only to your principles but also to your parents and friends.

Obedience:

Compliance with the wishes of Ò

Courage

It

BMt

M

promine

A Boy Scout's Religion

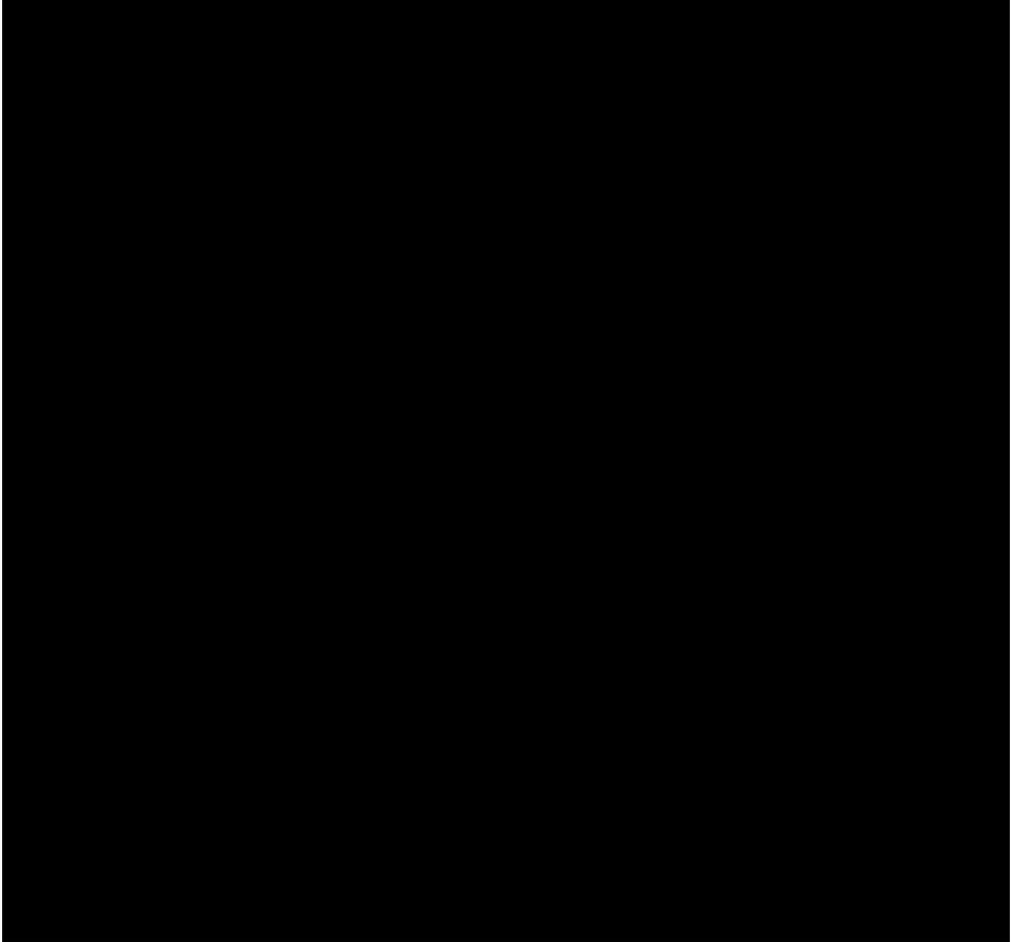
The Boy Scouts of America maintain that no boy can grow into the best kind of citizenship without recognizing his obligation to God. The first part of the boy scout's oath or pledge is:

with which he is connected. Of course, it is a fundamental principle of the Boy Scouts of America

lives

likely to catch fire. {256} As fir3ir ir

Remember the air within six inches of the floor is free from smoke, so when you have d u have ay ye^â of the floor m of t



Learning by doing

Never jump from a window unless the flames are so close to you that this is the only means of escape.

If you are outside a building, put bedding in a pile to break the jumper's fall, or get a strong carpet or rug to catch him,

A live wire lying on a patient may be flipped. patient f

Answer sheet
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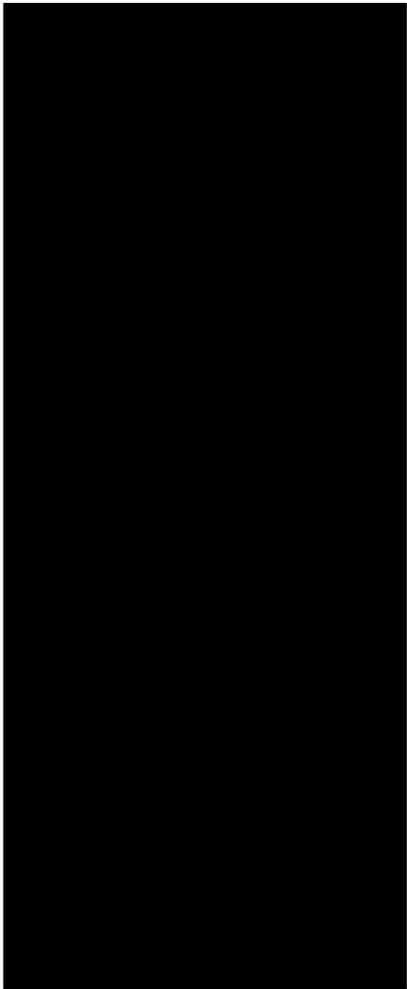
have ammonia or smelling salts, place them before the patient's nose so he may breathe them

arm pi r

and knows just what it is. A slight bruise needs no treatment. For a severe one, apply very hot or very cold water to prevent pain and swelling.

Sprains

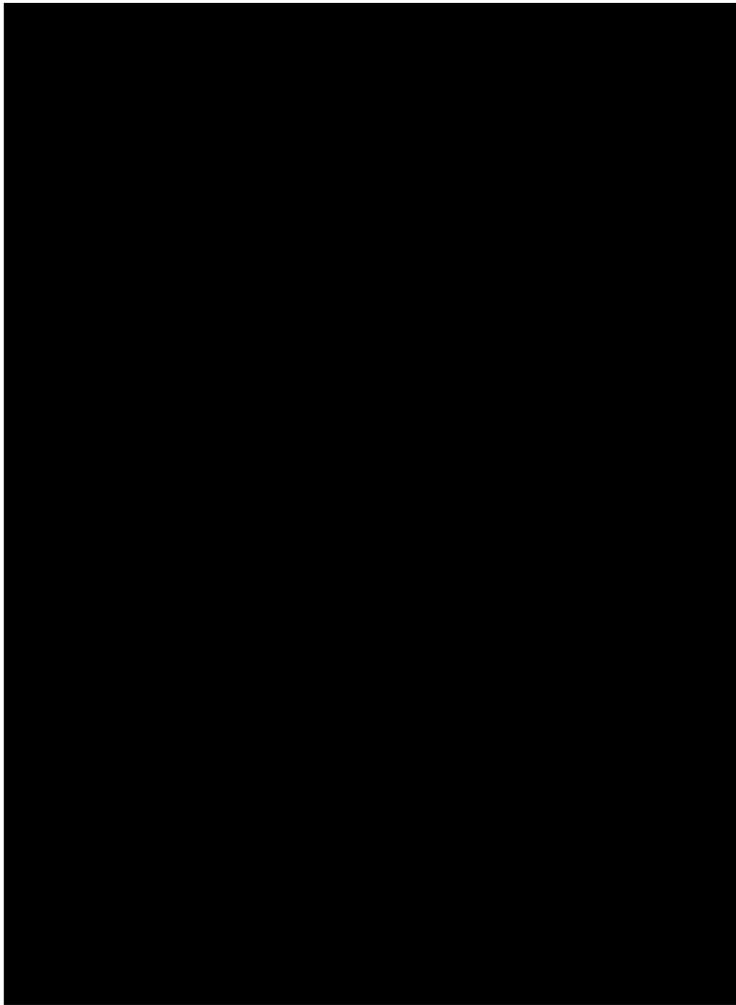
A scout slips and twists his ankle.



which



limb. In this handkerchief a smooth stone or a cork should be



How to ap

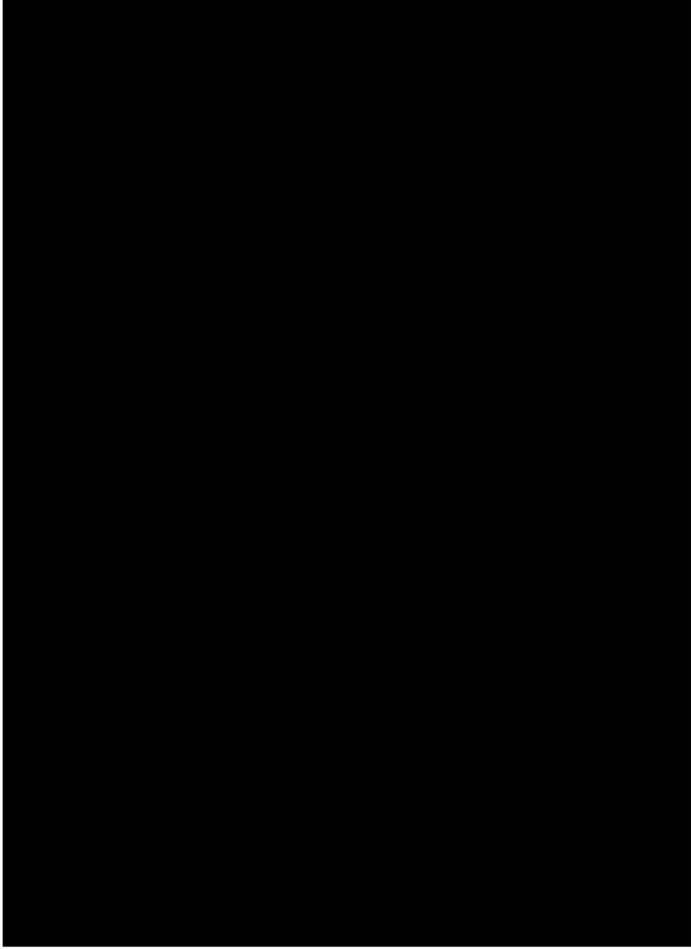
be ready to tighten it again quickly if bleeding re-commences.

orth t enth me bleeding put

Another method to stop bleeding from an artery when the wound is below the knee or elbow is to place a pad in the bend of the joint and double the limb back over it holding the pad in tightly. Tie the arm or leg in this position. If these means do not check the bleeding put a pad into the wound and press on it there. If you have no dressing and blood is being lost very rapidly, make pressure in the wound with your fingers. Remember, however, that this should only be resorted to in the case of absolute necessity as it will infect the wound.

the w ferp b to t y tyoven eryin

3 quind Osity3t w



his surroundings or of what is happening. A person may, however, be partially, as me

this point always treat for apoplexy.

Sunstroke and Heat Exhaustion

Anyone is liable to sunstroke or heat exhaustion if exposed to excessive heat. A scout should remember not to expose himself too much to the sun nor should he wear too heavy clothing in the summer. Leaves in the hat will do much to prevent sunstroke. If the scout becomes dizzy and exhaust 〃

A person in a fit first has convulsive movements of the body, then he usually becomes unconscious. A scout should have no difficulty in making out what is the matter with a person in a fit.

Put the sufferer on the floor or the ground where he can not hurt himself by striking anything. Loosen tight clothing and do not try to restrain the convulsive movements. A wad of {273} cloth thrust in the mouth will prevent biting the tongue. When he becomes quiet do not disturb him.

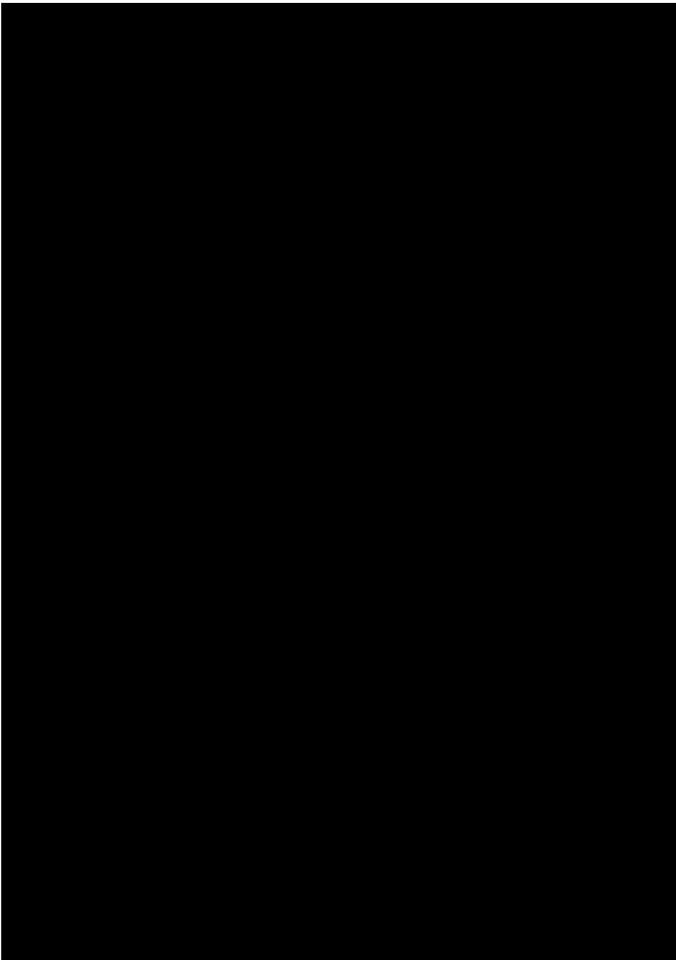
INJURIES DUE TO HEAT AND COLD

Burns and Scalds

For slight burns in order to relieve the pain some dressing to exclude the air is needed. Very good substances of this character are pastes made with water and baking soda, starch, or flour. Carbolized vaseline, olive or castor oil, and fresh lard or cream are all good. One of these substances should be smeared over a thin piece of cloth and placed on the burned part. A bandage should be put on over this to hold the dressing in place and for additional protection.

Severe burns and scalds are very serious injuries which require treatment from a physician. Pending his arrival the scout should remember to 3m aaa suffererfor sh

look up, press lower lid down, and if this down, and if it is down,



Eye bandage

Sunburn

This is simply an inflammation of the skin due to action of the sun. It may be prevented by hardenhnbybyby i y

Any toilet pow

A roll of paper under the upper lip, between it and the gum, will also help. Whes l hi eN i l e e3 i w w

whhi" 63hl:

Earache

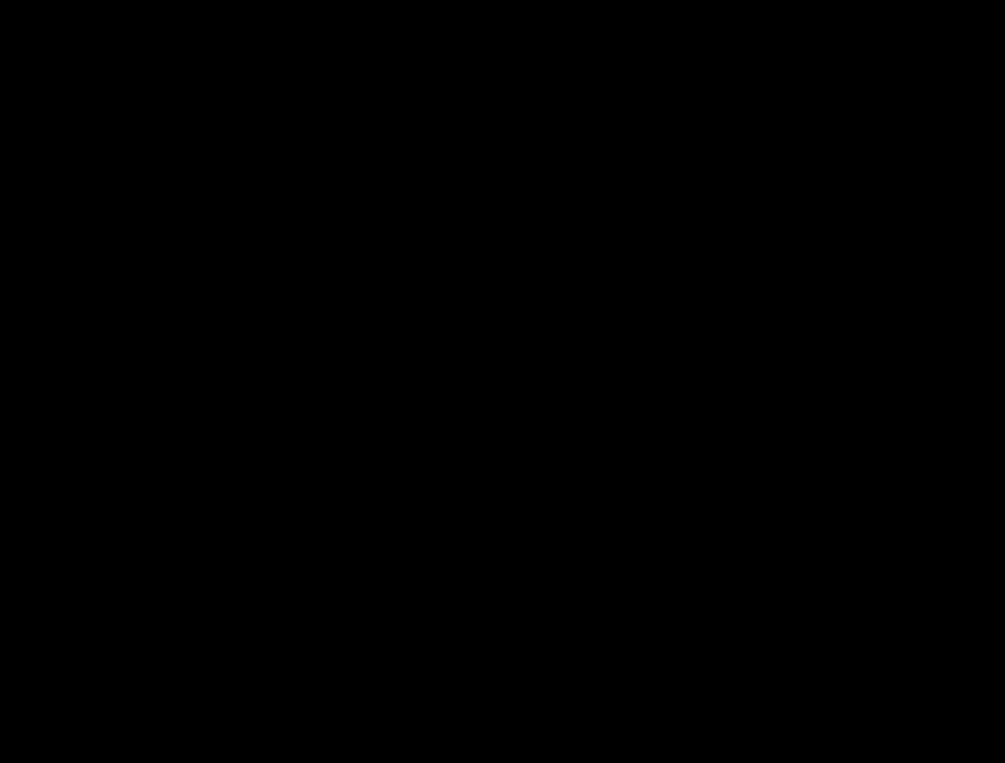
This is likely to result seriously and a doctor should be consulted in order to prevent bad results with possible loss of hearing. Hot cloths, a bag of heated salt,

get into bed. Plenty of covers

Swi

Breast str e oâs Februar Harrier t least 2 str î o

his own. Quite good speed can be made in this way, and all of these methods are practical as a trial will show. A little



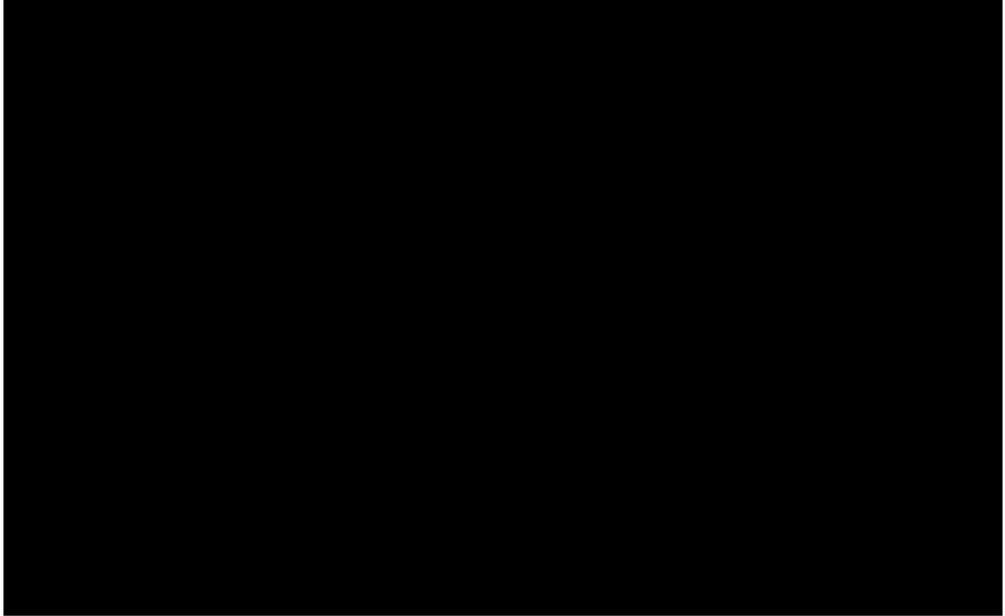
Break for wrist hold --- Breaking back strangle hold

If one uses care in approaching a frightened or drowning
pme

{283} struggles. The swimmer throws both hands above his head which forces both low in the water and then turns the leverage of his arms against the other's thumbs, breaking the hold easily. It should be borne in mind that a drowning man

Break

which must be broken without an instant's delay, though be e



Throwing r i o o r u

The eleva

to one side, so as no.e

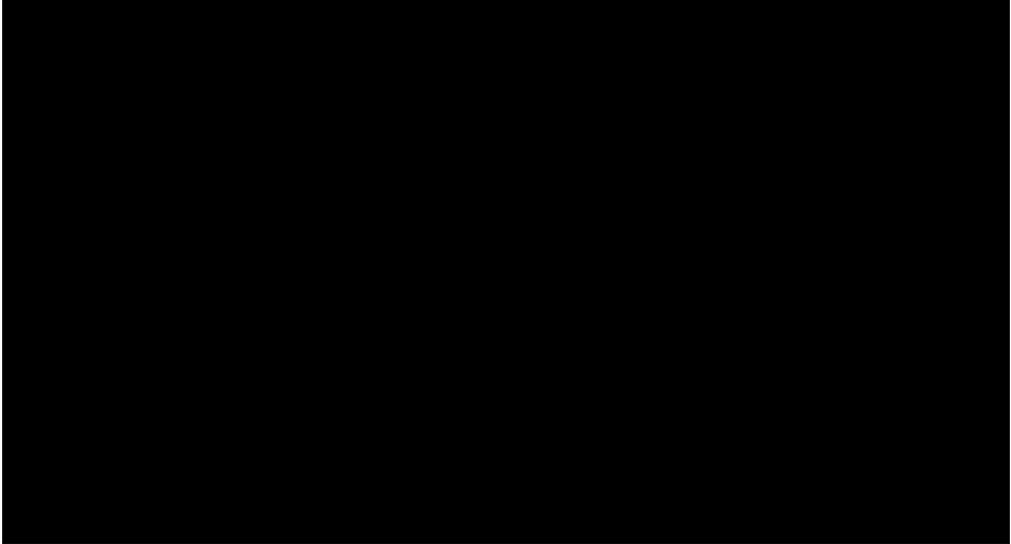
quiet and warm. Always get the services of a physician as soon as possible

of corn, dropping two or three grains for every yard and making the trail as crooked as he likes, playing such tricks as a deer would do to baffle his pursuers. Then he hides the deer in any place he fancies, but not among rocks or on the top of a ridge, because in one case many arrows would be broken, and in the other, lost.

The hunters now hunt for this deer just as for a real ^{na3} ~~ing~~

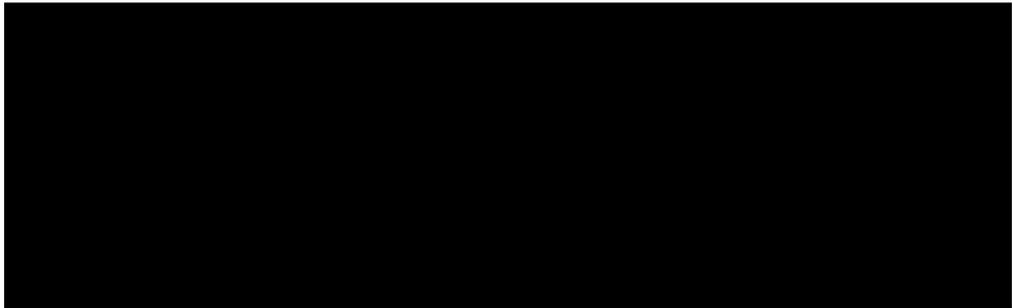
Thus

boys grow so skilful on thehh



He has three dens about one hundred yards apart in a triangle. While in his den the bear is safe. If the den is a tree or rock, he is safe while touching it. He is obliged to come out when the shikar hunter counts one hundred, and must go the rounds of the three till the hunt is settled.

The object of the hunters is to break the ballo w3"3#t is settle



The e e e h e h

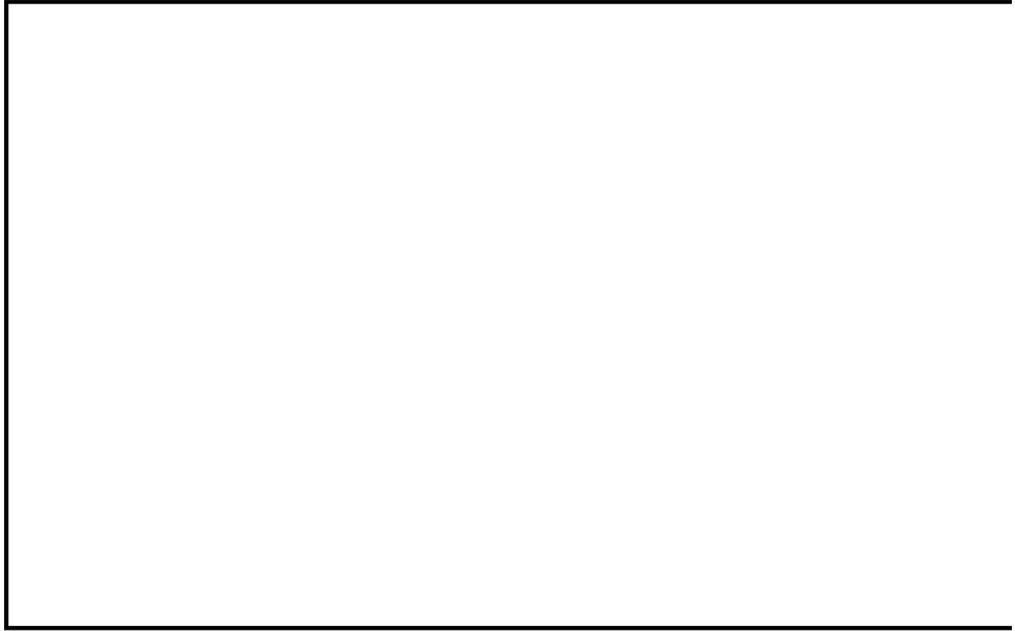
the shape of a duck's head and bill. And it must be cased in waterproof, to keep it from getting wet and heavy. The object of the hook toeshinhe " w | t fromemustinf, and toemil t

as sores. As a result, the CO_2 is $1''$ 1



Quicksight

This game is a wonderful developer of the power to see and memorize quickly.



Hostile Spy

Hanging from a tree trunk in a forest. The figure is a silhouette of a person, possibly a spy, hanging from a tree trunk. The background is a dark, textured forest scene.

blanket at the enemy's side, and so count one for himself.

A game is usually best out of se

each tri t æ ce the ther that ae h i

Any scout coming within fifty yards of a stronger party will be put out of action if seen by the enemy; if he can creep by without being seen it is all right.

Scouts posted to watch as outposts cannot move from their ground, but their strength counts as double, and they may send single messages to their neighbors or to their own scouting party.

An umpire should be with each outpost and with each scouting patrol.

At a given hour operations will cease, and all will assemble at the given spot.

fair

Then put the stranger among eight or ten other tutle/æhe the

as fast as he can. The reserves thereupon coop ote

in the room on your scoring paper with a column for marks for each scout against them, which can then easily be totalled up at foot.

Follow the Trail

Send out a "hare," either walking or cycling, with a path a

orange peel, etc. P

{311}

Shoot Out

Two patrols compete. Targets: bottles or bricks set up on end to represent the opposing patrol. Both patrols are drawn up t u 3

Siberian Man Hunt

One scout as fugitive runs away across the snow in any
direction he may please until he finds a go ~~until~~

Chalk the Ar

spear and speak the truth," was a national maxim of the Persians that we may copy with advantage.

The apparatus required is some light spears and an archery target. The spears should vary from five to six feet in le

Arctic Expedition

E

Games in Path-finding

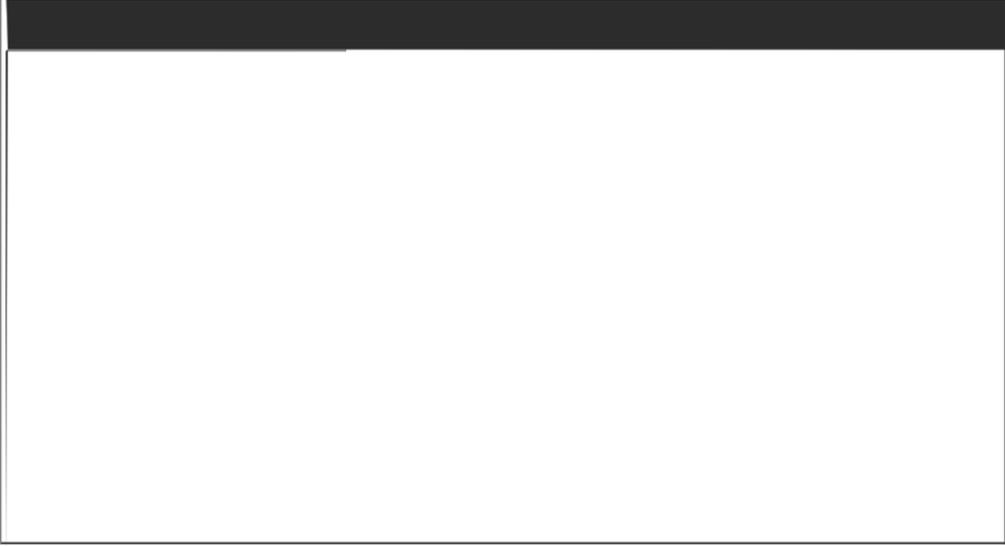
Instructor takes a patrol in patrolling form

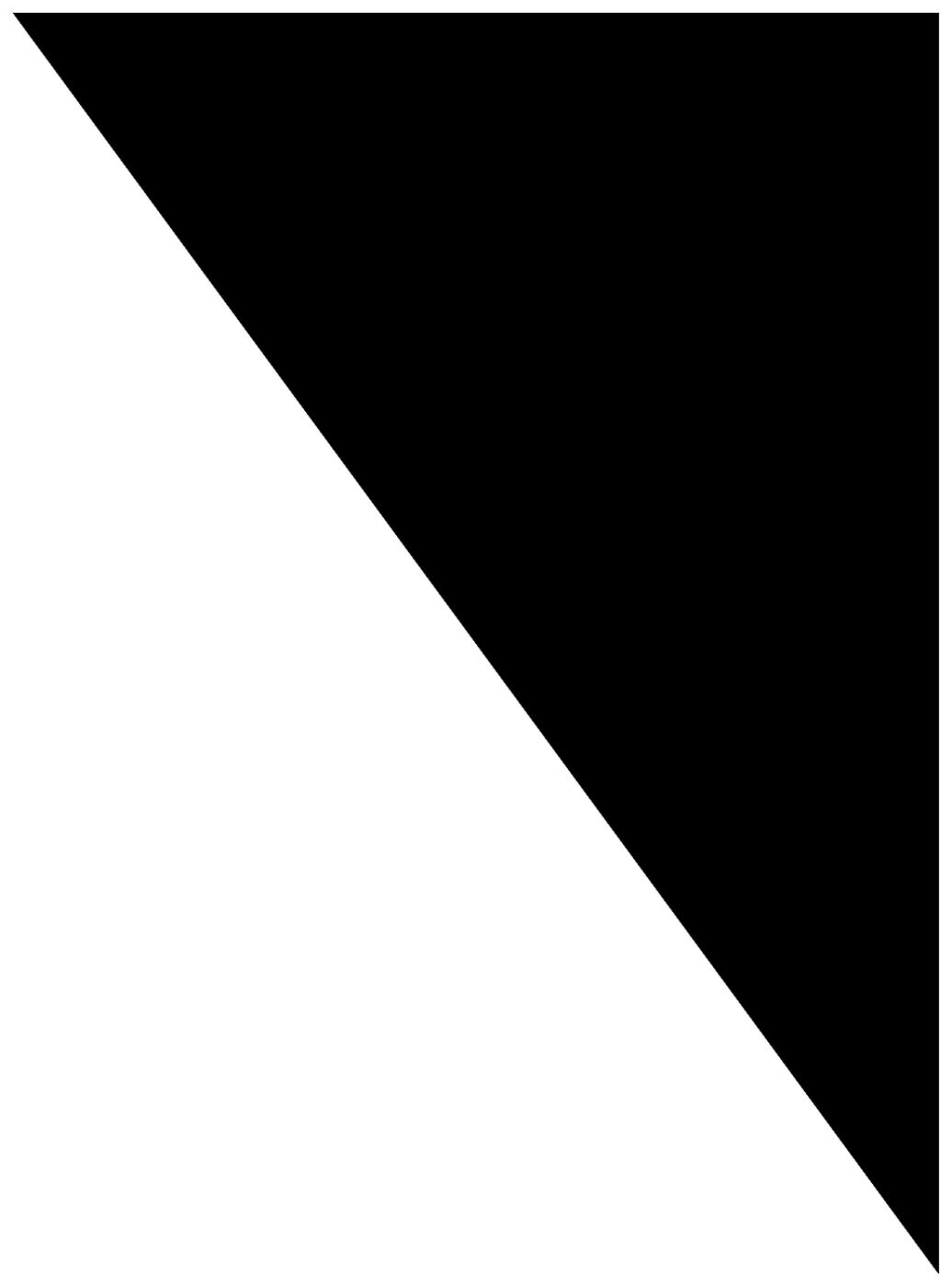
practically any number camu

description should make it necessary to go to each spot in
turn; and p dsc in iron n

the horse and rider lose their balance so as to throw them off

the forefinge





never cease to be of romantic and thri

The

Following the expulsion of the British from Boston, the battle field of the Revolution changes to New York

twenty thousand American seamen had been pressed into service and were slaves on ships that were foreign, England especially claiming the right to search American ships and press into service all men found on board who were English by birth, thou³

"Then conquer we must, when our cause it is just,
And this be our motto, 'In God is our Trust'."

The Birth of New States

The history of the fifty-six years between 1789 and 1845 is marked by the development of new states formed out of the territory the settlement of the wilderness. The people of our country have always been pioneering, going ahead of civilization, so to speak, but always taking it with them. Scouts they have been in every sense of the word. Following the rivers, clearing the forests, fording the streams, braving the dangers, living the wild life--brave men and women!

The first state to come into the Union of the thirteen original

our people in her territory; where at first welcomed and encouraged by the Mexicans, they were later deluged in blood. The spirit of

Texas was secured, and also possession of th

The

elections. While in the state legislature, he studied law and later went to Springfield to practise it. The only other public office he makes note of is his election to the lower irst ,l ti

the burden of the war clouds lifted, had gone to Ford's
Theatre in WdT i tino oseent de i d' s eftofe i efseers

With the destruction of the Maine--whether by accident or intent--with the appalling loss of two hundred and fi

equ

decided upon had six points, but Mrs

the top of the staff and then lowered to position, and preliminary to lowering from half staff it should first be raised to top.

On Memorial Day, May 30th, the flag should fly at half mast from sunrise until noon, and full staff from noon to sunset.

(Taken from the "Sons of the Revolution" or "The Revolution" or "The Revolution")

and the presiding officer of the House of Represent

President.

The Navy

The enlisted strength of the navy, as in the army, is limited.

The law allows 47,500 men and apprenticed seamen. The number of officers and enlisted men at the present time, as

to the Civil Service Commission at Washington, D. C., or make inquiry at the local post-office.

Foreign Service

The foreign service of our government is carried on through the diplomatic corps

character of a state.

{347}

Towns, Villages, and Cities

The government of the town, or the village, or the city is called local government i

aaaaa

judges and officers of the court. In fact, i estæ, ffla, cotu aiif

In any form of government, problems are continually arising as to the rights of property and the rights of persons, and it is well for us to remember this distinction: that the end of soc

come after them. And, therefore, each gen "

soldiers of boy scou

Thy woods and temple head d st

Whose broad stripes and bright stars, thro'

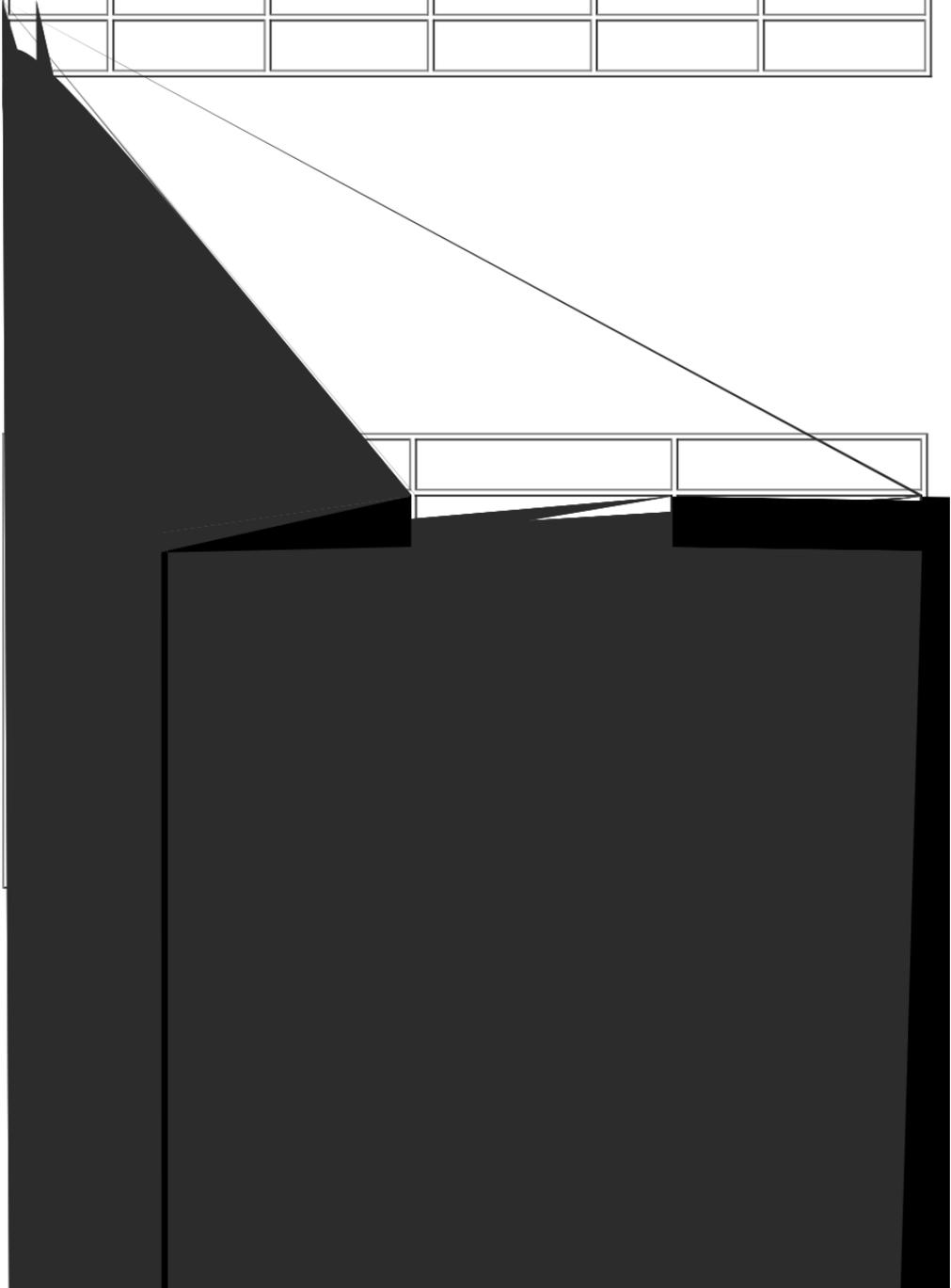
Then conquer we must, when our w

ver

Important: When ordering su



			[REDACTED]		





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No. 1

No. 2

Nos. 3 and

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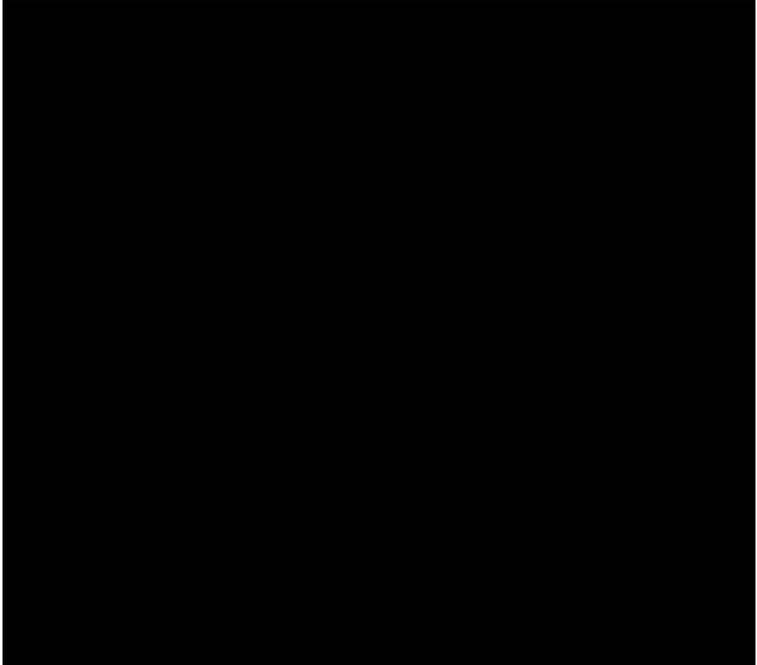
1 Tweezers



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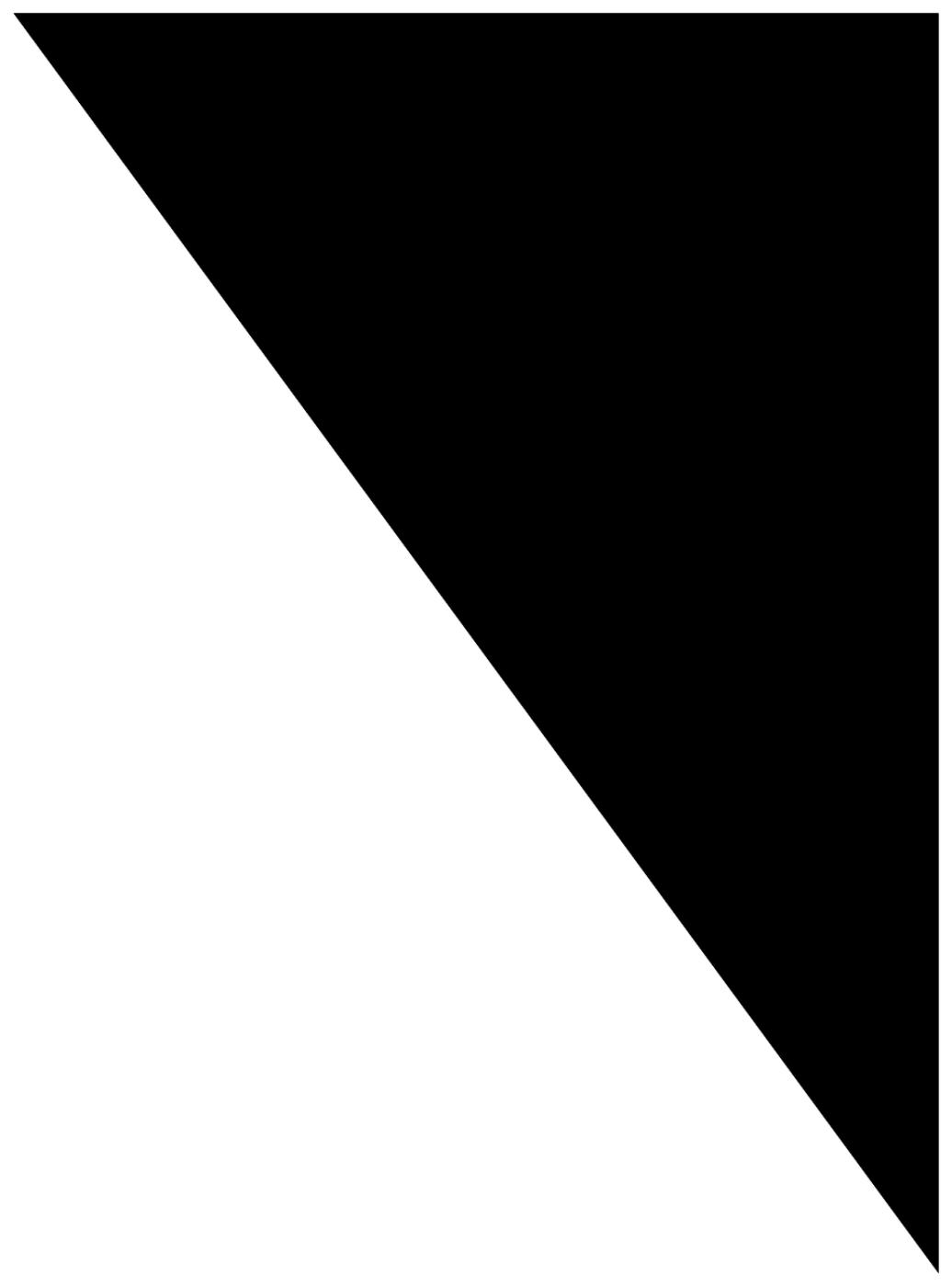
Lanyard: This piece of equipment is so simple in construction that every scout ought to make his own. " " " "



Number 2. Price 2m m _



* *Shoes*: Any good shoe that is made up for the purpose of ease, and comfort in tramping will serve the boy scout's needs. The Boy Scout shoe is convenient, inexpensive and especially designed for scouting.
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Making kMÄF ... t M

suitable for scouting. Prims

Then

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F - To full length

Breeches

M - All around at waist under coat

Leggings

G - Size of calf

H - Size of inst 3

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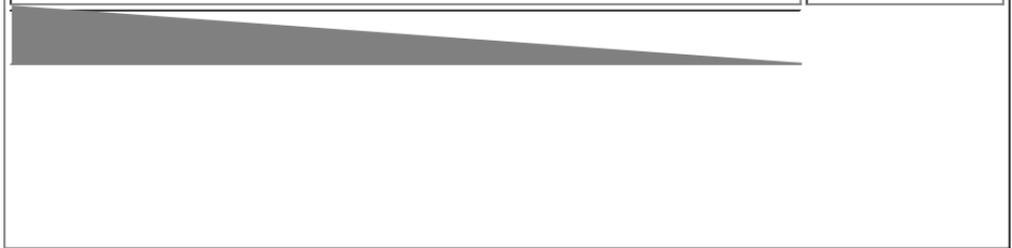
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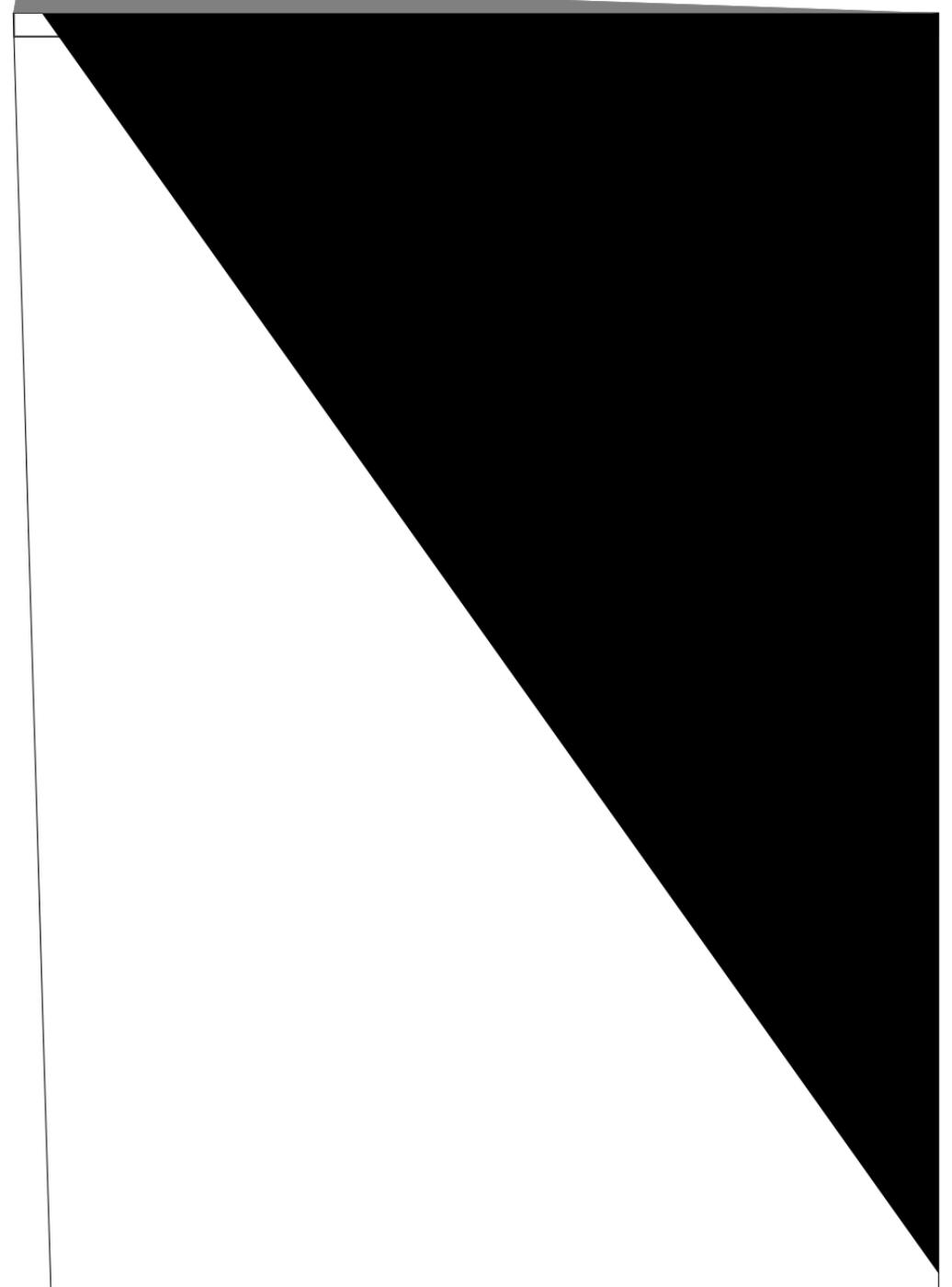
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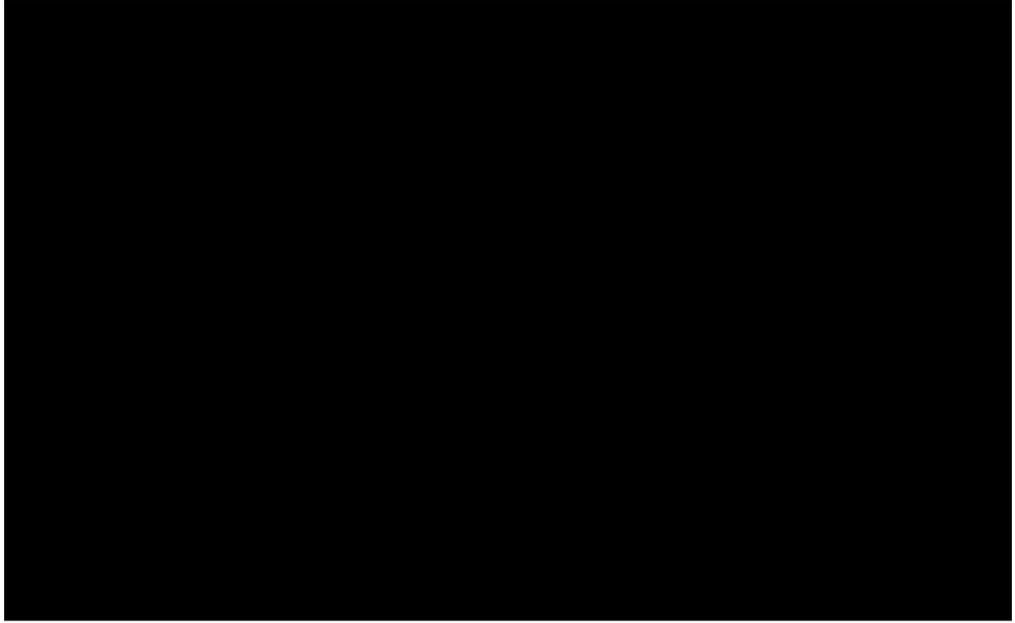
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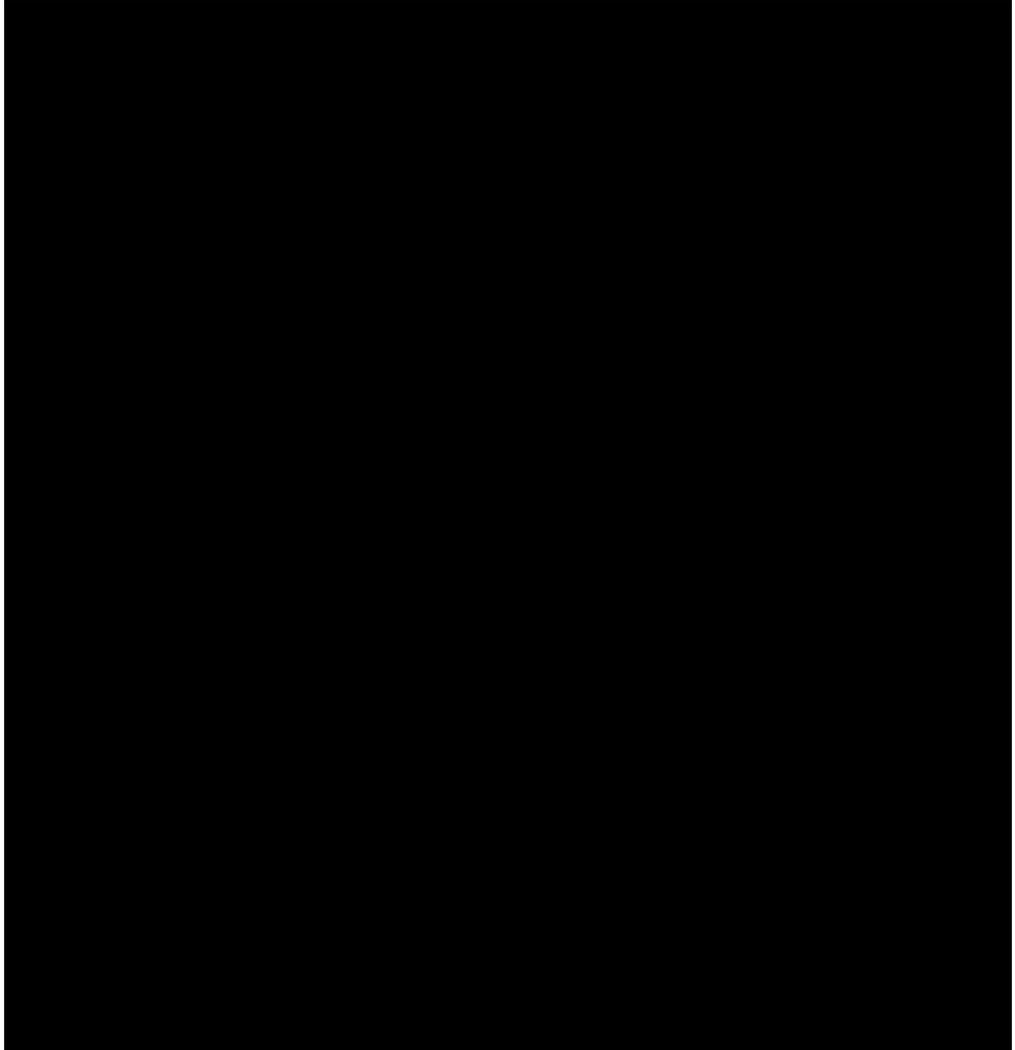
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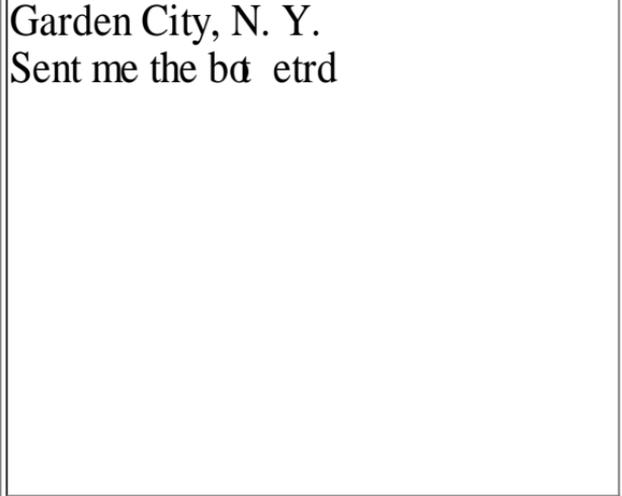
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