

Welcome to Calvary Lutheran Church's 2020 Scavenger Hunt

Adventure, mystery, fun and excitement await you.

We offer this scavenger hunt to you as a fun way to get out either as a family or as an individual. We hope you will enjoy seeing our community in a different way! The scavenger hunt is designed in four phases with a weekly prize drawing. To be eligible for the prize drawing for each phase make sure you submit your responses by the deadline for each phase. Feel free to complete the hunt a phase at a time or do the whole thing all at once.

Send All Answers and Photos to pastortimmalek@calvarywillmar.org with 2020 Scavenger Hunt (or even 2020SH) in the subject line. Remember - you may complete the phases at your own pace but the drawing for each phase will be among those completed and turned in by Noon on the Sunday listed in each phase. See the special notes on Phase Four. Call **Pastor Tim at 320-905-8677** for questions or help.

What you will need: A smart phone for finding map coordinates and taking photographs, paper and pen for taking notes, these instructions and hand sanitizer (in case you want to touch anything). Note, if you have a hand-held GPS you might enjoy using it for these activities.

Note: If you don't have a smart phone and would still like to participate call Pastor Tim and he will teach you how to look up the map coordinates using a computer and Google Maps.

You can enter the coordinates for the clues below directly into any map app on your phone and it will show you the location with a marker. There are some apps that can actually draw a line to the marker and some will use a compass with arrow and distance to guide you.

There is a free app that I highly recommend, it is called Gaia GPS. Download it, play around with it, if you have questions call Pastor Tim. On the map page near the top is a plus sign in a circle tap that and then select "Add Waypoint" and then you can enter the coordinates and a name for the clues. Your waypoints will be kept in the saved folder you see on the map screen.

If you want to learn more about map coordinates and GPS please see the Appendix at the end of the clues!

Good Luck! Here are your clues!

Phase One

Step One: Navigate to N45.13066, W095.05396

You are looking for a Granite Historical Marker that names the first resident of what is now the city of Willmar.

Q1) What was this person's name? _____

Q2) What year did he die? _____

Step Two: Navigate to the following coordinates

N45.1xxxx, W095.0yyyy where xxxx is 5422 minus the year from Q2 above and where yyyy is 946 plus the same year.

Q3) You are now in front of piece of art, what is the name of this piece of art as engraved on the Base? _____

Behind the artwork is a wall containing memorial bricks. Find the brick with the earliest Birth Year.

Q4) What is the name on this brick? _____

Q5) What year was this person born? _____

Step Three: Navigate to the following coordinates

N45.1aaaa, W095.0bbbb where aaaa is 3594 minus the year from Q5 and where bbbb is 4077 plus the same year.

You are standing in front of a place of worship, an ELCA congregation.

Q6) What is the name of our friends' church? _____ y _____

Q7) From their sign, what does Bienvenidos Todos mean? _____

Q8) What is their three-digit house number (part of their street address)? _____

Step Four: Navigate to the following coordinates

N45.12rrr, W095.08sss where rrr is 1161 minus the number from Q8 and where sss is 32 plus the same number.

Q9) You are now in a park near an interestingly designed swing. What makes this swing special, how can it be used? _____

Q10) Take a picture of yourself and/or your group on or near the rocket ship.

Send answers and picture to pastortimmalek@calvarywillmar.org by noon on July 5th to be eligible for first week drawings.

Phase Two [Take a picture of your group at any of these sites]

Step One: Navigate to N45.12741, W095.03612

You are close to a very large piece of machinery.

Q1) What is one word that contains the letter “o” three times that can be used to describe what this machine is? _____

Q2) Complete this sentence: Each of the _____ drive wheels is _____ inches high.

Q3) This is engine # _____ (four digits)

Step Two: you can easily walk to the next location from the last.

Navigate to N45.1aaaa, W095.0bbbb where aaaa is 5197 minus the number from Q3 and bbbb is 1225 plus the same number.

Look for a metal sign that talks about this historical house.

Q4) What is the name of this place? _____

Q5) What year was it built? _____

Q6) What is the house number above the front door? _____

Step Three: Navigate to the following coordinates

N45.ccccc, W095.0dddd where ccccc is 12696 minus the year from Q5 and dddd is 6033 plus the house number from Q6.

This will take you to a place where you could sit to rest below “Old Glory.” The bench has an inscription on it.

Q7) What Bible verse does it have? _____

Q8) What year did Pastor Bob do his internship at Bethel? _____

Step Four: Navigate to the following coordinates

N45.1eeee, W095.0ffff where eeee is 3959 minus the year in Q8 and ffff is 2828 plus the same year.

You are standing in front of a place of worship, an ELCA congregation.

Q9) What is the name of our friends’ church? _____

Q10) There are three dates (years) engraved in three different locations around the church, what are they? _____, _____, _____

Q11) Which of these is the earliest? _____ Q12) Which is the latest? _____

Step Five: Navigate to the following coordinates

N45.ggggg, W095.0hhhh where ggggg is 13631 minus the year in Q11 and hhhh is 3742 minus the year in Q12.

You are in a park where Calvary spread out the wood chips during our God’s Work Our Hands Sunday last September. The play structure is one of the newest in town.

Q13) How many slides does it have _____? Q14) How many drums are here _____?

Send answers and picture to pastortimmalek@calvarywillmar.org by noon on July 12th to be eligible for second week drawings.

Phase Three

Step One: Navigate to N45.12004, W095.04928

You are close to a large figure and two informational signs.

Q1) What does the Dakota word Kandiyohi mean _____?

Q2) The statue is _____ feet tall.

Step Two: Navigate to the following coordinates

N45.120aa, W095.05074 where aa is 81 minus the number from Q2.

You are standing in front of a building that has three sculpture panels on the front. Each depicts an area of endeavor, what are they?

Q3) Left panel (an eleven letter word beginning with A) _____?

Q4) Center panel (an eight letter word beginning with M) _____?

Q5) Right panel (an eight letter word beginning with I) _____?

Q6) Who or what does the central figure in the central panel represent (several possible answers)

_____?

Step Three: Navigate to N45.12211, W095.03731

This area is enclosed by a fence, entrance is through a pedestrian gate located near the SW corner of the fence. The gate opens outward. This area must be visited between the hours of 8AM and 9PM. The coordinates take you near the grave marker of Harold A Engelstad. Look for the marker.

Q7) What branch of service did Harold serve in? _____

Q8) What wars was he involved in? _____ and _____

Q9) Roughly what age would he have been in each conflict (within ten years or so)?

_____ and _____

Q10) What year did Harold die? _____

Step Four: Navigate to the following coordinates

N45.11049, W095.0bbbb where bbbb is 3811 plus the year from Q10

You are standing in front of a place of worship, an ELCA congregation.

Q11) What is the name of our friends' church? _____

Q12) From this location, what hangs under a cross above you? _____

Step Five: Navigate to the following coordinates to a parking lot.

N45.10716, W095.06078 from the parking lot navigate to the following coordinates

N45.10655, W095.05920 this is a great place for bird watching and spotting other wildlife.

Take a picture from here that contains at least one animal of ANY kind.

Send answers and picture to pastortimmalek@calvarywillmar.org by noon on July 19th to be eligible for third week drawings.

Phase Four

Step One: Navigate to N45.13447, W095.02795

Q1) You are near a statue that is dedicated to the CCC what does CCC stand for?

Q2) What tool is the statue holding by his side? _____

Q3) Another plaque on this monument mentions by name the individual who furnished the base, what is the name? _____

Q4) What CCC Camp # did this person work at? _____

Step Two: You can easily walk between step one and two. Navigate to N45.13499, W095.02aaa where aaa is 132 plus the number from Q4

Q5) You are near a large granite monument, what two words are engraved in the largest print on the monument? _____

Q6) How many flag poles in total are here? _____

Step Three: Navigate to N45.13332, W095.03bbb where bbb is 609 minus the number from Q6. This takes you to a parking lot, from here navigate to N45.13575, W095.03ccc where ccc is 712 plus the number from Q6. This takes you to a place that will keep you high and dry as you cross over. Take a picture of you and or your group at this location.

Step Four: Navigate to N45.12443, W095.07793 this will get you near the grave of Calvary's sixth pastor Nicolay Nilsen. You will be looking for the small marker with he and his wife's names as well as the larger "Family" Nilsen marker.

Q7) What are the birth and death years of Pastor Nilsen? _____ and _____

Q8) Complete this sentence which is engraved on the Nilsen family marker, "The Memory of the _____ is _____."

Now a greater challenge, find the grave marker of a young woman who died on her eighth birthday. Some hints; the grave is near the north end of the cemetery, it is a limestone marker, the marker contains a symbol (a shape) that was common in the 19th century to indicate a life cut short.

Q10) What is her name? _____

Q11) What year did she die? _____

Step Five: Navigate to N45.1ddddd, W095.03960 where dddd is 3247 minus the year in Q11. You are standing near a place of worship, an ELCA congregation.

Q12) What is the name of our church? _____

Q13) How many metal crosses are permanently affixed to the outside of our church? _____

Near the coordinates will be a large plastic tub with a treasure chest of sorts. Please use the hand sanitizer before and after and take no more than three items from the chest. The tub will be in its location from 9AM until 9PM, July 20 through July 24.

Send answers and picture to pastortimmalek@calvarywillmar.org by noon on July 26th to be eligible for fourth week drawings. We will also have drawings for people who completed all four phases. All winners will be announced on Facebook. Thanks for participating.

APPENDIX

Map Coordinates

First, a brief lesson in map coordinates. Buildings have street addresses, like Calvary's, 302 Olena Ave SE but street addresses can't necessarily direct you to everyplace you want to go. Map coordinates can direct you to any spot on the face of the planet. These coordinates use Latitude and Longitude (and always listed in that order).

If you have ever looked at a globe you may have noticed the grid-like structure of lines that surround the globe. These grids are made up of lines of Latitude and Longitude. Latitude is marked by parallel lines that run East to West from the Equator 0° to the North Pole 90° N or the South Pole -90° S. These lines are referred to as parallels. You may know that we live near the 45^{th} parallel (45° N), Svea is even closer, which means we are half way between the Equator and the North Pole.

Longitude are lines that are not parallel to each other but each is a circle that surrounds the globe and runs through both the North and South Poles. The lines that run north and south are called Meridians and the Prime Meridian runs through Greenwich England (UK). Meridians west of the Prime are degrees west and are sometimes annotated in negative numbers. Meridian east of the Prime are degrees east and are annotated in positive numbers. The 100^{th} Meridian (West or -100°) runs through central South Dakota (near Selby, SD on US HWY 12) and the 90^{th} Meridian (West or -90°) runs through central Wisconsin.

You will note that all of the coordinates in the scavenger hunt are 45° N and 95° W but even that encompasses a very large area so how do find a specific spot within this area around the intersection of this parallel and meridian? There are 360 degrees ($^{\circ}$) in a circle, likewise there are 360 degrees in the circumference of the earth whether measured in any parallel circle of latitude or meridian circle of longitude. Map makers use a method of identifying the spaces in between degrees of latitude and longitude with numbers called minutes and seconds. It works similar to our structure for time. Each degree of latitude or longitude is made up of 60 minutes (marked with ') and each minute is made up of 60 seconds (marked with "). The notation for a location would look something like this for the city of Willmar: $45^{\circ} 7' 19''$ N, $95^{\circ} 2' 38''$ W and would be read, forty-five degrees seven minutes nineteen seconds north by ninety-five degrees 2 minutes thirty-eight seconds west. You could still get even closer to the spot you are trying to "address" on the earth by using decimal places (up to four places) for the seconds.

GPS Global Positioning System [If you know all about GPS skip this section and go to the next section]

GPS (short for Global Positioning System) is a constellation of 24 or more satellites flying 12,645 miles above the surface of the earth. Each one circles the planet twice a day in one of six orbits. These satellites broadcast radio signals providing their location and precise time of transmission, these GPS radio signals travel through space at the speed of light (over 186,000 miles per hour) and are received by a GPS device which can determine the distance from the satellite by the time it took for the signal to travel. With signals from at least four satellites a GPS device can determine its location on earth in three dimensions. Amazing isn't it? Commonly available civilian GPS units are accurate to within 18 feet on average.

The Newer Formats of Using Coordinates [If you know all about formatting coordinates skip this section and go to the next]

If you enter coordinates into Google Maps, it will allow you to use one of three formats

- Degrees, minutes, and seconds (DMS)
- Degrees and decimal minutes (DMM)

- Decimal degrees (DD)

We discussed the first format (DMS) earlier and that format is rarely used today with electronics. The second format DMM is used by Geocaching.com and is the default setting on many handheld dedicated GPS devices. The third format DD is used by most automotive GPSs and is often the default format on smart phones. Is also the easiest to enter on a map app. For the DD equivalent for Willmar that was used in the example above the coordinates would read N45.122021°, W095.043869°. Most devices allow you to change the format.

Our Scavenger Hunt will use Decimal Degrees (DD) format. [If you need a different format call Pastor Tim]