

Spruce Lake



Outdoor School



2019

Trip Journal



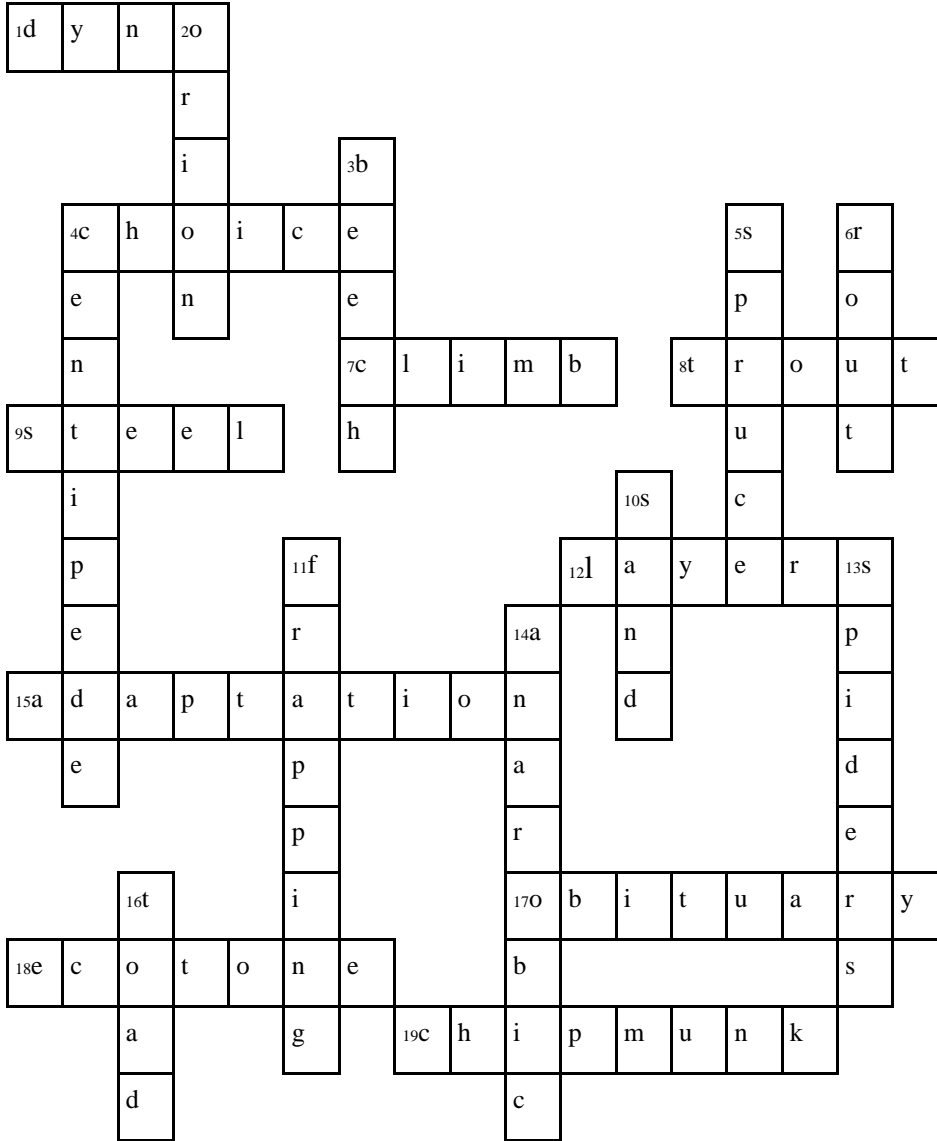
Teacher's Answer Key

## Teachers' Answer Key to SLOS Journal Puzzles

From Page 3

|   |   |
|---|---|
| 5280 F in a M                             | 5280 feet in a mile                             |
| 9 M to have a B                           | 9 months to have a baby                         |
| 27 B of the N T                           | 27 books of the New Testament                   |
| 8 N in an O                               | 8 notes in an octave                            |
| 1260 D in D P                             | 1260 days in Daniel's prophecy                  |
| 9 S in T T T                              | 9 squares in tick tack toe                      |
| 100 D C in which W B                      | 100 degrees Celsius in which water boils        |
| 2000 P in a T                             | 2000 pounds in a ton                            |
| 6 D of C                                  | 6 days of creation                              |
| 101 D                                     | 101 Dalmatians                                  |
| 1 S S for M, 1 G L for M K                | 1 small step for man, 1 giant leap for man kind |
| 6 L on an I                               | 6 legs on an insect                             |
| 366 D in L Y                              | 366 days in leap year                           |
| 238000 M to the M                         | 238000 miles to the moon                        |
| 10,670,000,000,000 D that the U S is in D | 10670000000000 dollars that the U.S. is in dept |
| 206 B in the H B                          | 206 bones in the human body                     |
| 4 S on a S                                | 4 sides on a square                             |
| 20,000 L under the S                      | 20,000 leagues under the sea                    |
| 4 C P on a C                              | 4 cardinal points on a compass                  |
| 501 L S J                                 | 501 levi strauss jeans                          |
| 1, 2 B my S                               | 1, 2 buckle my shoe                             |
| 2 is B than O                             | 2 is better than one                            |

From page 7



From page 12

1. Try to do this question in your head. Take 1000 and add 40 to it. Now add another 1000. Now add another 30. Add another 1000. Now add 20. Now add another 1000. Now add 10.

Answer: 4100    Note: Most people who do this in their head get the wrong answer of 5000.

2. Replace each of the letters with a number so that the following works.

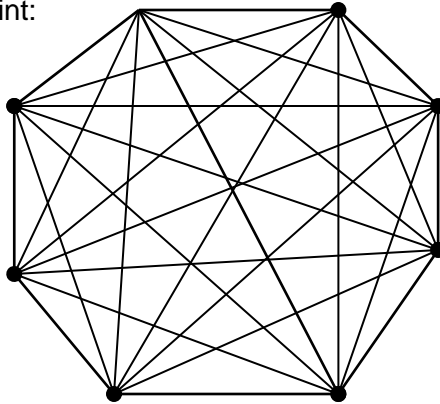
$$\text{OOOH} + \text{FOOD} = \text{FIGHT}$$

Answer: O=8, H=6, F=1, D=3, I=0, G=7, T=9    so,    8886+1883=10769

3. If there are eight people in a room and everyone shakes hands with everyone else exactly once, how many total handshakes happen?

Answer: 28

Hint:



From page 13

1. kool look crossing

look both ways before crossing

2. pass  
service

Passover service

3.

tornado



4. ♥♦♣♠ yourself

suit yourself

5. ban ana

banana split

6. painS

growing pains

7. ME ME ME  
LA LA LA

three square meals

8. trn

no U turn

9. leaf new

turn over a new leaf

10. ° ° burn

second degree burn

11. I'm 1,2,3  
U

I'm counting on you

12. eilnpu

lineup in alphabetical order

13.

goodbye

wave goodbye

14.



see it in 3d

From page 14

n e t r e e f e g a o t r e r a g  
u e o s e w f r z g o h e t n i s c  
a e k a e u r e v a e b f d k a o h  
f a i s m s e w s p m t s b e u s b  
c o o t o s h c e w i h a g g a i u  
e o e n i u a u e a r g r f f g r g  
p m d a o v s t f e a s o s o g i s  
b s u e e t r k u f e u s g a g p n  
i h i n f o m g n r l s u s r f s o  
p c g s i o s r g o a e i e k t y w  
g e c g l m p a b s t t b m d z i p  
r e c b t s u e m i s w i o o m a d  
f b d n e h z l e a z b e o a k i u  
a d a e r a o o a b o c w n n r o r  
e h k c g i r n o k a d c u o k d i  
h i u k d a e i c w l s a p s l e s  
s b p a h d k k n i h i f a o i b  
a r a c c o o n w g d d s i s d r k

From Page 18

How many non-congruent triangles can be drawn on this grid by connecting the dots? Ie. Two triangles of the same shape still count as one.

Answer: 8

What is the maximum number of squares that can be found in this shape?

Answer: 30

White to move and checkmate in three moves. Can you figure out how?

Answer:

Move the knight closest to the queen to the black square in front of the black king. The black king then has to move to the open black square to his left. Now move the same knight you moved before to the white space behind the white pawn putting the king in check. The black king now has to move diagonally to the black square behind his own black pawn. Lastly, move the bishop sitting on the black square diagonally to the right one space to put the black king into checkmate.

