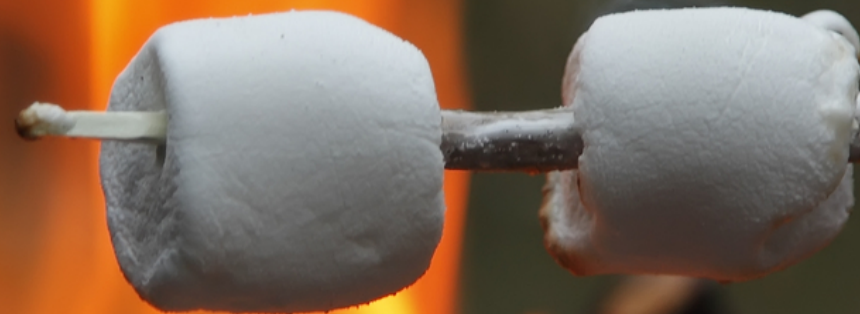


THE CAMPING TRIP

AN ADDITION AND SUBTRACTION PROJECT

ADDITION AND SUBTRACTION WITHIN 100

**Incorporate practical
application of addition
and subtraction concepts
to help your students make
real-life connections!**



CREATED BY SHELLEY GRAY

ABOUT THIS RESOURCE

Are you looking for a way to reinforce basic addition and subtraction concepts in an engaging way that helps your students make connections? "The Camping Trip" is a **real-life math project** where students will complete TEN different addition/subtraction tasks. This project will help your students see how addition and subtraction is used in real life.

You might choose to print specific tasks to use during Math centers, or you might make a booklet out of all ten tasks and let your students choose which one to do when. The choice is yours.

Take a look at what you'll find inside this math project:

TASK #1: CAMPING SUPPLIES

Your family has decided to start camping! But first you'll need to buy some supplies! You already have a tent, but you have \$75 to spend on other supplies. Decide which supplies you will purchase with your \$75.

TASK #1 **CAMPING SUPPLIES**
Your family has decided to start camping! But first you'll need to buy some supplies!

You already have a tent, but you have \$75 to spend on other supplies. Decide which supplies you will purchase with your \$75.

TENT: \$10 MATCHES (package of 50): \$5 TRIPPOPS: \$20

BROUILLARD: \$10 LANTERN: \$5 CANOE: \$6

FLASHLIGHT: \$15 PERMITS: \$15 SLEEPING BAG: \$25

Fill out the order form.

ITEM NAME	COST
TOTAL COST	

TASK#2: CAMPSITE PLANNING

Altogether there are six families coming on your camping trip! Let's figure out the best group camping site for everyone. Then work with campsite costs.

TASK #2 **CAMPSITE PLANNING**
Altogether there are six families coming on your camping trip! Let's figure out the best group camping site for everyone.

This chart shows the families that will be coming on the camping trip.

FAMILY NAME	NUMBER OF PEOPLE	WHAT EQUIPMENT ARE THEY BRINGING
Watson	4	small camp
Smith	6	2 tents
Taylor	5	1 tent
Anderson	7	large canoe
Wilson	2	1 tent
James	1	1 tent

There are four group camping sites available. Choose the one that will work best for this group.

<p>SITE #24 \$12 per night per family</p> <ul style="list-style-type: none"> • Fire-20-30 people • No more than 1 tent • Tax: none included 	<p>SITE #12 \$11 per night per family</p> <ul style="list-style-type: none"> • Fire: 20-30 people • No tent allowed • Large fire pit included
<p>SITE #1 \$10 per night per family</p> <ul style="list-style-type: none"> • Fire: 18-25 people • Canoes and tents allowed • Large fire pit included 	<p>SITE #17 \$15 per night per family</p> <ul style="list-style-type: none"> • Fire: 20-30 people • Canoes and tents allowed • Tax: large fire pits included

Which campsite will work best for this group?
What is the cost of this campsite? \$ _____ per night per family
What is the total cost for all 6 families for ONE night?

TASK#3: GROCERY SHOPPING

You're in charge of grocery shopping for your family. Use your budget to decide what you will buy. Figure out the total amount.

TASK #3 **GROCERY SHOPPING**
You're in charge of grocery shopping for your family. What will you buy?

Grocery Store Price List

Item	Cost	Item	Cost
hot dog buns	\$3.00/dozen	onions	\$8.00
women's hot dogs	\$10.00/dozen	potatoes	\$4.00
hamburger buns	\$2.00/dozen	watermelon	\$10.00
hamburger patties	\$6.00/dozen	vegetables (1 lb)	\$2.00/bag
BBQ sauce	\$1.00	lemons	\$1.00
fresh tomatoes	\$6.00/bag	peas	\$2.00/dozen
bread	\$3.00	rice	\$2.00/5-lb bag

Suppose that you have \$50.00 to spend on groceries. There are four people in your family and you will be camping for 2 nights. Make a list of what you can buy with your \$50.00. Be sure to include the quantity of each item.

TOTAL GROCERY COST: _____

TASK #4: SETTING UP THE SITE

You've arrived at the campground and now it's time to set up your campsite! Figure out how long it will take to set up. Can you complete all of the set up within the hour? Then you'll need to haul firewood.

TASK #4 SETTING UP THE SITE
You've arrived at the campground and now it's time to set up your campsite!

It is 4:00 pm and the group wants to start cooking supper at 5:00 pm. Can you have everything set up by 5:00 pm? Let's figure it out!

Task	How long will it take?
Unload bicycles	7 minutes
Unpack the vehicle	12 minutes
Set up the tent	15 minutes
Organize the make of the tent	5 minutes
Arrange picnic table and food storage	5 minutes

Altogether, how long does it take to set up the campsite?

After supper it's time to get wood for the bonfire area. The good news is that the firewood is close by and you don't have to walk far to get it! You grab the wagon and get ready to haul the wood. About how long will it take to haul the wood to the water? (Round to the nearest minute.)

You will make two more trips for wood. How many logs could you take on the fourth and fifth trips to make sure that you have 50 logs?

How many more logs do you need?

The second and third trip you are able to haul 10 logs (on each trip). After the third trip is complete, how many more do you need?

To the wood storage, you haul 10 logs. How many more do you need?

TASK #5: S'MORES

It's not a bonfire without s'mores! Crack the code to reveal the instructions for making a s'more!

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A: 45	F: 20	K: 65	P: 9	U: 90	Z: 44
B: 18	G: 100	L: 15	Q: 3	V: 75	
C: 34	H: 10	M: 56	R: 36	W: 84	
D: 60	I: 80	N: 4	S: 73	X: 11	
E: 28	J: 98	O: 77	T: 52	Y: 1	

Crack the code to reveal the instructions for making a s'more!

TASK #6: TIME FOR GAMES

There are lots of outdoor games to play while you are camping. You and a few of the others set up three different games to play. Use the data from each game to answer the questions.

TASK #6 TIME FOR GAMES
There are lots of outdoor games to play while you are camping. You and a few of the others set up three different games to play.

First up - the bean bag toss! In this game, there are three different ways to get points:

- Bean bag goes in the hole: **10 points**
- Bean bag lands on the platform, but doesn't go in the hole: **5 points**
- Bean bag touches the platform but lands on the ground: **2 points**

Each of the four teams chooses all time or if they play an interval. Use the data from each game to answer the questions.

TEAM NAME	2 point shots	5 point shots	10 point shots
Team Awesome	###	###	###
The Terrifying Taylors	###	###	###
Team Awesome	###	###	###
The Watson Warriors	###	###	###

Use the tally chart to answer the questions:

- Which team won the bean bag toss?
- How many more points did Team Awesome get than The Watson Warriors?
- The Watson Warriors were really hoping to get 100 points. How many more points did they need to reach 100?

The last game that you set up is the ring toss. For every ring that lands in the bottle, the team gets 5 points.

This picture graph shows the results from the ring toss game:

TEAM NAME	Number of Rings on Bottles
The Terrifying Taylors	6
Team Awesome	4
Team Anderson	5
The Watson Warriors	3

Use the chart to answer the questions:

- How many points did each team get?
- How many more points did Team Awesome get than The Watson Warriors?
- How many more points did Team Awesome get than The Terrifying Taylors?

The second game is an egg and spoon relay race! There are three people on each team. Each person must carry the egg (on the spoon) around the tree and back. If the egg falls, that person has to start over against the team with the shortest time wins!

Here are the results from the relay race. Rank each team from 1st place to 4th place.

TEAM NAME	RELAY TIME	RACE (1 st to 4 th)
Team Awesome	68 seconds	
The Terrifying Taylors	59 seconds	
Team Anderson	73 seconds	
The Watson Warriors	45 seconds	

Use the chart to answer the questions:

- What was the difference in time between the first place and fourth place teams?
- How many times faster were The Terrifying Taylors than Team Anderson?
- On the relay race, the first person took 21 seconds to get around the tree and back. The second person took 24 seconds. How long did it take for the third person to go around the tree and back?
- By how many seconds did the Terrifying Taylors win the egg and spoon race?

TASK #7: CANOE RENTALS

It's a beautiful day so you decide to go canoeing! Let's go to the local canoe rental shop! Work out the cost of canoes, lifejackets, and other supplies for each family.

TASK #7 CANOE RENTALS
It's a beautiful day so you decide to go canoeing! Let's go to the local canoe rental shop!

Carl's Canoe Shop Price List

Small canoe rental	\$5 for 30 minutes
Large canoe rental	\$8 for 30 minutes
Lifejacket rental	\$3
Photo Opportunity	\$1 per picture

Four of the families from your group are going to rent canoes and supplies. Find the total cost for each family.

Smith	Jones
1 small canoe (30 minutes)	1 large canoe (30 minutes)
1 lifejacket (1 hour)	4 lifejackets
6 lifejackets	1 photo opportunity
Total Cost	Total Cost

Anderson	Wilson
1 large canoe (1 hour)	1 large canoe (30 minutes)
2 small canoes (1 hour)	2 lifejackets
7 lifejackets	2 photo opportunities
3 photo opportunities	
Total Cost	Total Cost

Answer the questions:

- Which family spent the most money at Carl's Canoe Shop?
- The Wilsons got their money back of the campsite fee to worry though. Mrs. Jones says that she will pay for them. Altogether how much will Mrs. Jones be paying for her family and the Wilsons?
- How much more money did the Andersons spend than the Smiths?

TASK #8: GOING FOR A HIKE

The campground has a popular hiking trail. Everyone decides to go on a group hike. Use the map to answer the questions.

TASK #8 GOING FOR A HIKE
The campground has a popular hiking trail. Everyone decides to go on a group hike.

Hint: If at all, you'll need a map.

CARL'S CAMPGROUND HIKING MAP

We have your options for this at Carl's Campground! Our hiking trails are well marked and our picnic tables are in a shady area with a nearby stream. The map shows you the location of the trails and the picnic area.

Use the map to answer the questions:

- John is going to Point A. If they take Goldfinch trail all the way around and go to Point A, how many minutes will it take?
- Two of the group members want to take the short (Bluebird Trail) rather than taking Goldfinch trail all the way. How many minutes will it take them if they begin and end at Point A?

- One of the girls hurt her leg and it's taking TWICE the amount of time to walk the trail. How long will it take her to walk from Point A to Point D?
- A few of the group members decide to stop at the picnic area for a 10-minute rest. How many minutes will they walk BEFORE stopping to rest?

How many minutes will they walk AFTER stopping to rest?

Including the rest at the picnic, how long will it take to be off?

THINK FAST!
The trail is also popular with joggers, and the campground owner has asked YOU to test out the jogging time on the Goldfinch trail. Here are the times that you record:

Point A to Point B	Point B to Point A
Point B to Point C	Point C to Point B
Point C to Point D	Point D to Point C
Point D to Point A	Point A to Point D

How long will it take you to jog all the way around the trail?

TASK #9: BIRD WATCHING

As you hike, you decide to graph all of the different birds that you see. Interpret the data from the graph.

TASK #9 BIRD WATCHING
As you hike, you decide to graph all of the different birds that you see.

BIRDS SEEN DURING HIKE

seagull	wren	warbler	cocker	phoeasant	crow
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*EACH SHADED SPACE REPRESENTS 4 BIRDS

How many of each type of bird was seen?

seagull: _____ wren: _____ warbler: _____
cocker: _____ phoeasant: _____ crow: _____

Answer the questions:

- Altogether, how many crows, wrens, and seagulls did you see?
- How many more crows than wrens and warblers did you see?

TASK #10: GOING FOR ICE CREAM

After the hike you're starving! Let's go to the campground ice cream shop! Figure out the total cost.

TASK #10 GOING FOR ICE CREAM
After the hike you're starving! Let's go to the campground ice cream shop!

When your group arrives at the ice cream shop, your Uncle Doug says that he's buying the ice cream for EVERYONE! How generous! First you take a look at the menu:

Camptown Ice Cream Shop

Single Scoop (regular cone)	\$2
Double Scoop (regular cone)	\$3
Triple Scoop (regular cone)	\$4
Waffle Cone	\$1.50

While you decide what to eat, the employees of the ice cream shop serve you. What is the total for each of their bills?

ORDER #1
2 single scoops (regular cone)
1 triple scoop vanilla (waffle cone)
1 double scoop vanilla (regular cone)

TOTAL DOLLAR AMOUNT: _____
CUSTOMER PAID: \$10
CHANGE DOLLAR: _____

ORDER #2
1 single scoop vanilla (regular cone)
1 triple scoop vanilla (waffle cone)

TOTAL DOLLAR AMOUNT: _____
CUSTOMER PAID: \$10
CHANGE DOLLAR: _____

ORDER #3
1 double scoop chocolate (waffle cone)
1 double scoop vanilla (regular cone)

TOTAL DOLLAR AMOUNT: _____
CUSTOMER PAID: \$10
CHANGE DOLLAR: _____

Now it's your group's turn to be served! The servers at the ice cream shop are quick and get all 28 of your ice cream cones done right away! Now it's time to figure out the total amount for all of it! The server fills out this order form:

ORDER FORM

Quantity	Type of Cone	Cost per Cone	Total Cost
3	single-scoop chocolate (regular cone)		
5	single-scoop chocolate (waffle cone)		
1	triple-scoop double dough (waffle cone)		
4	double-scoop chocolate (regular cone)		
10	single-scoop vanilla (regular cone)		
3	double-scoop vanilla (waffle cone)		
1	triple-scoop vanilla (waffle cone)		
TOTAL COST OF ALL CONES			

Uncle Doug pays with a \$100 bill. How much change will he get back?

ANSWER KEYS ARE PROVIDED TO MAKE SELF-CHECKING EASY!

TRANSFORM YOUR CLASSROOM!

This project is a great opportunity to transform your classroom and add another level of student engagement!

While your students work, use your projector to put a “fire” on, and serve hot chocolate and marshmallows!



HOW TO USE MATH PROJECTS IN YOUR CLASSROOM:

Math projects are an ideal way to consolidate learning. I recommend using them as an engaging activity AFTER skills have been learned rather than during learning. You will likely find that engagement is very high and that your students ask to do more of these!

There are many ways to use math projects in your classroom. Some of the most popular are:

- a small-group or pairs activity
- a guided math activity to allow you to see where your students are struggling
- a fun, rewarding way to engage your early finishers
- a low-prep, easy-to-implement activity for a substitute teacher

Enjoy!

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