

SOCCER TOURNAMENT

Project Based Learning

4th Grade Print & Google Slides

ALL-STAR SOCCER TOURNAMENT

SELF REFLECTION Write a reflection of your experience with this project. How did you feel about the match? What were the biggest problems and activities? Explain what you found easy to do and any difficulties you had with it. How do you think you will enjoy this activity? Why or why not?

FINAL BUDGET

It is time to finish up the budget. Use your budget sheet to calculate the final budget for the tournament.

Final Budget for the Tournament

Item	Amount
Registration Fees Collected	
Referees	
Field Prep	
Porta-Potties	
Soccer Balls	
Trophies	
Money Remaining After Expenses	

I am ready for something new!

1. Subtract each expense from the total. Keep a subtotal of remaining money.

2. Any money not spent will be used for other activities.

SATURDAY SOCCER TOURNAMENT GAME TIMES

Below is the time schedule for Saturday's games. Each game will be played in two 30-minute halves. There will be a five-minute break between halves.

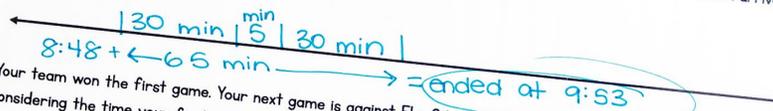
TIME SLOT 1-8:30 AM

TIME SLOT 2-10:00 AM

TIME SLOT 3-11:30 AM

TIME SLOT 4-1:30 PM

1. You are on Walnut Hill-Team I. Your first game on Saturday began at 8:48 because the Northfield-Team I arrived late. What time did the game end? Solve using the number line.



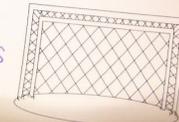
2. Your team won the first game. Your next game is against Elm City-Team I. The match will be in the 3rd time slot. Considering the time your first game ended, how many minutes will you wait until your second game begins?

Second game begins at 11:30
First game ended at 9:53

11:30
- 9:53
= a difference of 1 hour and 37 minutes to wait

3. The game ends in a 2-2 tie. After two 5-minute overtimes and one 5-minute penalty kick shootout, you win the match with a score of 4-3. When did the game end? Show how you know.

The game started at 11:30 and there was 30min + 5min + 30min + 5min + 5min + 5min of playing. That means the game was 80 minutes long and ended at 12:50 pm.



SATURDAY SOCCER TOURNAMENT SCHEDULE

Below is a sample game schedule for



Time Slot 1

Walnut Hill-Team 1

Northfield-Team 1

Elm City-Team 1

Oak Creek-Team 1

Time Slot 2

Walnut Hill-Team 2

Northfield-Team 2

Elm City-Team 2

Oak Creek-Team 2

SATURDAY SOCCER TOURNAMENT GAME TIMES

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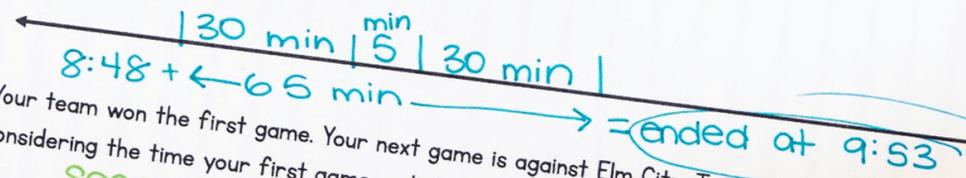
TIME SLOT 1-8:30 AM

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TIME SLOT 3-11:30 AM

TIME SLOT 4-1:30 PM

1. You are on Walnut Hill-Team 1. Your first game on Saturday began at 8:48 because the Northfield-Team 1 arrived late. What time did the game end? Solve using the number line.



2. Your team won the first game. Your next game is against Elm City-Team 1. The match will be in the 3rd time slot. Considering the time your first game ended, how many minutes will you wait until your second game begins?

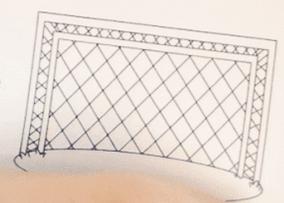
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The game started at 11:30 and there was 30min + 5min + 30min + 5min + 5min + 5min of playing. That means the game was 80 minutes long and ended at 12:50 pm.



SELF-EVALUATION RUBRIC: Highlight or shade the parts of the rubric that express how you rate yourself on this Project Based Learning Activity.



I feel very confident about my ability to solve the math problems.

I understand the math and can explain my work.

I easily solve the math problems.

SATURDAY SOCCER TOURNAMENT SCHEDULE

Below is a sample game schedule for your age group.

Time Slot 1

Walnut Hill-Team 1

Northfield-Team 1

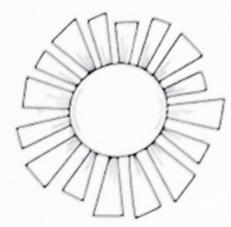
Winner of Game 1

Elm City-Team 1

Winner of Game 1

Winner of Game 2

Oak Cre



Time Slot 2

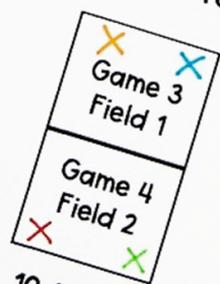
No

BUDGET-HIRING REFEREES-1

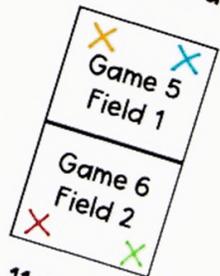
A major expense for the tournament is hiring referees. Here's a model you drew of Murray Park to help your father determine how many referees he needs to hire and how much money it will cost.



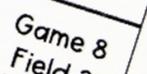
8:30 am



10:00 am



11:30 am



SATURDAY'S GAMES

1. There are two games played at each park. How many referees are needed at Murray Park to referee all 4 games in the same park?

VOLUNTEER SCHEDULE-SATURDAY

Walnut Hill will use one town green, four parks, and four parking lots for the tournament. Your father recruited volunteers to help make the tournament a success. Use the table to answer the following questions.

	INFORMATION BOOTH	CONCESSION STAND	DELIVERY OF ORANGE SLICES AT HALF TIME	PARKING LOT ATTENDANTS
Number of Volunteers	14	35	32	48
Time Slots	8:00-10:00 10:00-12:00 12:00-2:00 2:00-4:00	7:30-9:30 9:30-11:30 11:30-1:30 1:30-3:30	9:00 10:30 12:00 2:00	8:00-10:00 10:00-12:00 12:00-2:00 2:00-4:00
Number Needed for Each Time Slot	varies	8 per time slot	1 per field, in each time slot	4 per parking lot, in each time slot

1. The information booth will be set up on the Town Green. Your father planned 4 two-hour shifts. More volunteers are needed to work the first shift to greet players as they arrive. If 2 volunteers are needed for each two-hour shift from 10:00-4:00, how many volunteers did your father plan for the first shift?
2. The concession stand will serve breakfast and lunch. The plan calls for 8 workers per shift. Your father planned for more volunteers than needed. How many extra volunteers are on the schedule?

TABLE OF CONTENTS

1. Teacher & Student Directions
2. Welcome to the All-Star Soccer Tournament
3. Budgeting (collecting registration fees, paying expenses, and keeping running totals/subtotals)
4. Volunteers (plan schedules, word problems)
5. Soccer Practice (calculating and using data, making a line plot)
6. Town Map (word problems, elapsed time, calculating directions and distance)
7. Saturday & Sunday Tournament Schedule (word problems, time, elapsed time)
8. Challenge 1: Concession Stand (word problems, money)
9. Challenge 2: Concession Stand (word problems, money)
10. Self Evaluation & Rubric
11. Answer Key



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FOR THE TEACHER

ALL STAR SOCCER TOURNAMENT is a project-based learning task that involves using standards from *Operations and Algebraic Thinking*, *Numbers in Base Ten*, and *Measurement and Data* to solve problems related to hosting a soccer tournament.

The following standards are addressed:

- 4.OA.A.3 Solve multistep word problems posed with whole numbers and having whole-number answers using the 4 operations, including problems with remainders.
- 4.NBT.B.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm.
- 4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.
- 4.NBT.B.6 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.
- 4.MD.A.2 Use the 4 operations to solve word problems, including problems involving single fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as a number line that feature a measurement scale.
- 4.MD.B.4 Make a line plot to display a data set of measurements in fractions of a unit. Solve problems involving addition and subtraction of fractions by using information presented in line plots.

DIRECTIONS:

1. Assign students to work alone or in small groups.
2. Preview the activity with your students.
3. Allow students class time to complete the activity. This can span over several days.
4. Students have an opportunity to complete optional challenge activities.
5. Students will complete the self-evaluation reflection and evaluation rubric.
6. Allow students an opportunity to share their completed projects with classmates.

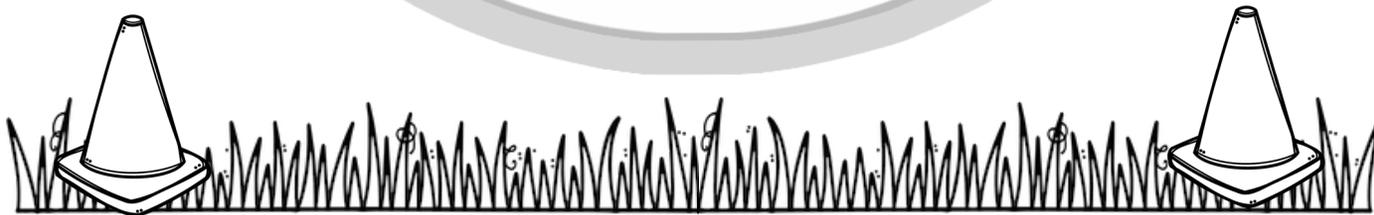


ALL-STAR SOCCER TOURNAMENT

You love playing soccer and have played for the town league since you were in 2nd grade. Every year, on the third weekend of September, the league sponsors a two-day tournament and invites teams from neighboring towns to participate. Read the list below to learn more about the tournament and your tasks to help make it a success.

HERE ARE YOUR TASKS:

- Read through the entire packet before beginning.
- Read the Welcome slide about the All-Star Soccer Tournament.
- Work within a budget, calculate income from registrations, and subtract expenses.
- Complete a Volunteer schedule.
- Review soccer practice statistics to help determine players' strengths.
- Create a line plot, add title, and mark with wholes, halves, and quarters.
- Use a town map and answer time, direction, and distance questions.
- Read the Soccer Tournament Schedule and answer time related questions.
- (Optional) Complete the Concession Stand pages and answer money questions.
- Complete the self-reflection and evaluation rubric.



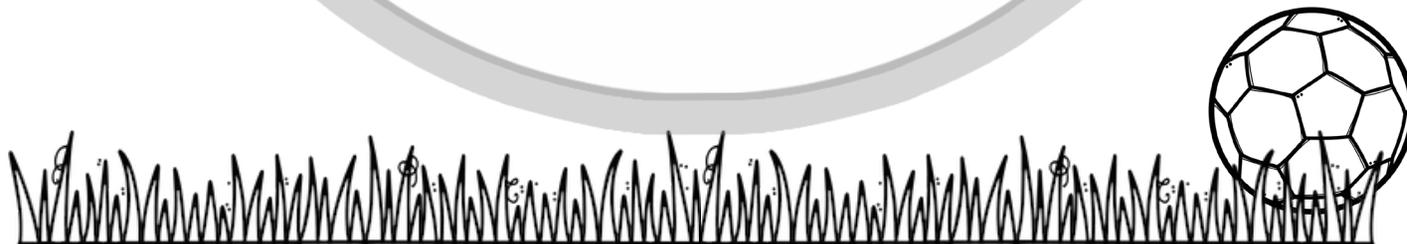
WELCOME TO THE ALL-STAR SOCCER TOURNAMENT!

Walnut Hill is a small town with many families and lots of kids. Soccer is the most popular sport played in Walnut Hill. Most kids begin playing on the Pee-Wee League when they are in kindergarten. Once kids become second graders, they are promoted to the All-Star League. One of the most exciting things about being on the All-Star League is playing in the annual fall tournament, which Walnut Hill hosts.

Hosting a soccer tournament is a great opportunity to encourage healthy lifestyle habits like staying fit. It also gives children an opportunity to support teammates, play fairly, and learn good sportsmanship skills. Most of all, it brings players together from different communities and provides an organized way for them to play hard and have fun.

The soccer leagues of Northfield, Elm City, and Oak Creek are invited to bring their teams to Walnut Hill to play in the tournament. There is a lot competition between the four towns, and every coach makes sure that their teams are at their best to play soccer. Kids, coaches, and families always look forward to this fun filled weekend.

This year's tournament is scheduled for October 8th and 9th. Your father has organized the event this year with help from you and your family. You can't wait for the tournament to get started.



BUDGET-COLLECTING REGISTRATION FEES-1

There are several costs involved in hosting a soccer tournament. Your father must prepare a budget that includes the money collected and the expenses for the All-Star Soccer Tournament. Below is a table that shows money collected for the Under-11 age group.

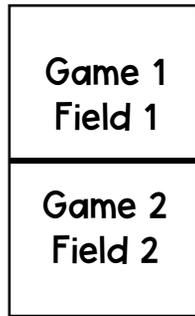
Team	Walnut Hill #1	Walnut Hill #2	Northfield #1	Northfield #2	Elm City #1	Elm City #2	Oak Creek #1	Oak Creek #2
Number of Players	11	17	16	13	18	14	12	15
Cost per Player	\$26.00 per player							
Team Total								

1. Complete the table to determine the amount of money each team paid to play in the tournament.
2. What is the difference in cost between the largest team and the smallest team?
3. What is the total amount of money your father collected in registration fees from all the Under-11 age groups?
Show how you know.
4. How many soccer players are in the Under-11 age group?



BUDGET-HIRING REFEREES-2

Here's a model you drew of Murray Park to help your father determine how many referees he needs to hire and how much money it will cost.



8:30 am



10:00 am



11:30 am



1:30 pm

SATURDAY'S GAMES AT MURRAY PARK

4. What is the total cost for referees on Saturday. Solve with an area model.
5. There are only 3 time slots for games on Sunday so referees will work one less game. What will be the total cost for referees on Sunday?
6. What is the total amount your father should budget to pay for referees for the tournament?



BUDGET-ADDITIONAL EXPENSES

The table shows additional expenses for the tournament. Use the data to answer the questions.

	Field Prep	Porta-Potties	Soccer Balls	Trophies
Amount Needed	2 per park (4 parks)	2 per park (4 parks)	5 per team (8 teams)	1 st , 2 nd , and 3 rd , MVP
Cost per	\$123.00	\$149.00	\$105.00 for bag of 5	\$8.00
Total Cost for Amount Needed				
Total Cost for All Additional Expenses				

1. Calculate the total cost for each additional expense. Write the amounts in the table. Show your work below.

2. What is the total cost for the additional expenses? Write the amount in the table. Show your work below.

3. Your father needs to know the cost of one soccer ball for his records. Help him figure out the cost per ball.

VOLUNTEER SCHEDULE-SATURDAY

Walnut Hill will use one town green, four parks, and four parking lots for the tournament. Your father recruited volunteers to help make the tournament a success. Use the table to answer the following questions.

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- The concession stand will serve breakfast and lunch. The plan calls for 8 workers per shift. Your father planned for more volunteers than needed. How many extra volunteers are on the schedule?

SOCCER PRACTICE SKILLS AND DRILLS-RANKINGS

Coach Franklin uses practice drills to help him plan strategies and player positions. The table shows the rankings of each player in five drills from 1-11. Players ranked 1 are the top performer in the skill. Use the data below to answer the questions.

PLAYERS AND RANKINGS

DRILL	Mike	Tony	Fawn	KC	Eric	Julio	Cole	Lydia	Alex	Lani	Pedro
50-YARD DASH	3	5	4	10	1	9	11	2	6	8	7
DRIBBLE & TURN	4	1	2	7	10	6	3	8	5	11	9
STOP, TRAP, SHOOT	8	6	10	11	9	1	3	2	7	4	5
SIDELINE THROW-IN	2	8	7	1	6	5	9	4	3	11	10
ONE TOUCH & SHOOT	6	10	9	5	11	1	3	4	7	8	2
TOTALS											

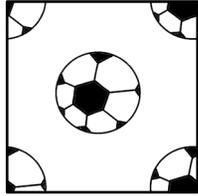
1. Help Coach Franklin find the totals for each player and rank them from lowest to highest.

PLAYER											
RANK											

2. Coach Franklin must select 5 players to be his penalty kickers. He will add the rankings for *Stop, Trap, Shoot* and *One Touch & Shoot* to pick his kickers. Use Coach Franklin's plan to name the 5 penalty kickers. Include their scores.

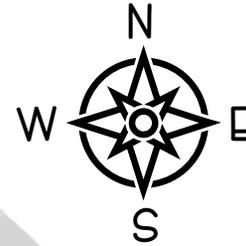


TOWN MAP-WORD PROBLEMS-1



Walnut Hill Center Map and Key

 = 1/10 of a mile



1. Your first game on Saturday will be played at Town Center Park. You live in the Briar Patch neighborhood. Your father will park in the public parking lot. He will exit the neighborhood across from Plum Orchard Park. How many blocks south will he drive to get to the public parking lot? What is the distance, in miles? Explain.
2. Once your father parks the car, you walk through the bus barn property to get to Town Center Park. What part of a mile will you walk to the park?
3. Your second game will be played at Memorial Park. Your father does not want to move the car from the public parking lot because it will be hard to find another parking space. Name the direction you will walk to get to the next field. Then, explain the distance you will walk, in miles.
4. Your soccer cleats are too small. After your second game on Saturday, you ask your dad if you can walk to the outdoor mall to buy some new cleats for tomorrow's games. He asks you to meet him in the public parking lot in one hour. If it takes you 13 minutes to walk to the mall, how much time do you have to shop for new cleats?

SATURDAY SOCCER TOURNAMENT GAME TIMES

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TIME SLOT 2--10:00 AM

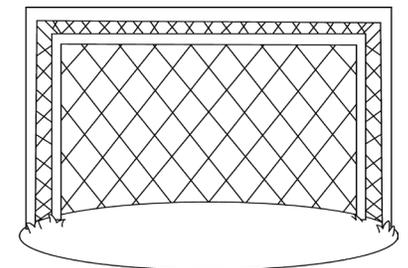
TIME SLOT 3--11:30 AM

TIME SLOT 4--1:30 PM

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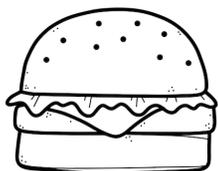


CHALLENGE 1-CONCESSION STAND

The Newcomer's Club runs the concession stand. They use the money they earn to buy welcome baskets for new families who move into town. Use their menu to answer the following questions.

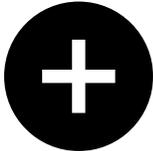
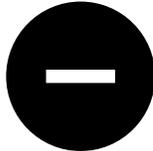
<i>Egg Sandwich</i>	\$2.25	<i>Muffin</i>	\$1.35
<i>Hamburger</i>	\$3.50	<i>Hotdog</i>	\$2.75
<i>French Fries</i>	\$1.80	<i>Bottled Water</i>	\$1.65

1. On Saturday, the Newcomer's Club sold 110 egg sandwiches and 241 muffins from 8:30 am to noon. How much money did they earn selling breakfast foods?
2. During lunchtime, they sold 377 hamburgers, 268 hotdogs and 550 orders of French Fries. How much money did they earn selling food at lunchtime?
3. How much money did they earn selling food on Saturday?



RUBRIC

SELF-EVALUATION RUBRIC: Highlight or shade the parts of the rubric that express how you rate yourself on this Project Based Learning Activity.

		
<p>I feel very confident about my ability to complete the math in this project.</p>	<p>I feel pretty good about my ability to complete the math in this project.</p>	<p>I feel a lot of the math in this project was too hard for me to do alone.</p>
<p>I understood all the math and did not need help to complete the problems.</p>	<p>I understood most of the math but needed a little help to solve some of the problems.</p>	<p>I understood some of the math but needed help to solve most of the problems.</p>
<p>I easily used many strategies to solve the math problems efficiently.</p>	<p>I needed some help to determine the best strategies for solving the math problems.</p>	<p>I had trouble understanding the best strategies to solve many of the math problems.</p>
<p>I feel I am ready for a harder math project.</p>	<p>I feel I should spend more time practicing similar math problems.</p>	<p>I feel I need assistance to work on similar math problems.</p>

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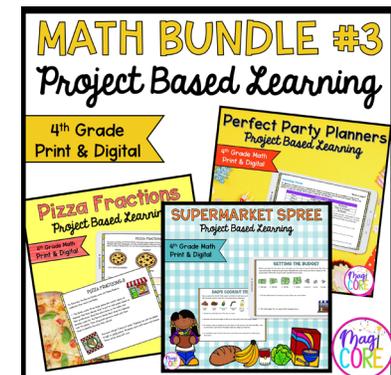
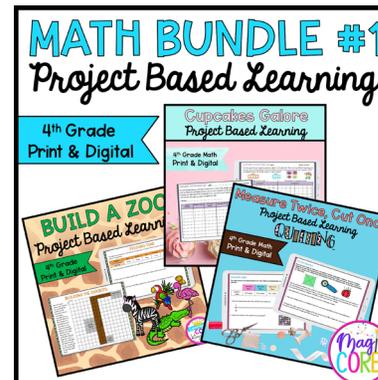
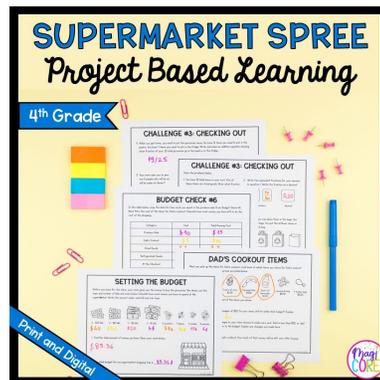


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