

# Soccer Tournament

## Project Based Learning

5th Grade Print & Google Slides

### 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

Egg Sandwich	\$1.39
Hamburger	\$2.80
French Fries	\$1.43
Muffin	
Hotdog	
TOTALS	\$2.97

On Saturday, the Newcomer's Club did they earn selling breakfast for

$$312 \times \$9 = \$2808$$

2. During lunchtime, they sold 416 baskets of food at lunchtime? earn selling food at lunchtime?

$$416 \times \$3.68 = \$1530.88$$

3. How much money did they earn from breakfast and lunch?



### 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 1-13. Players ranked 1 are the top performer in the skill. Use the data below to answer the questions.

DRILL	PLAYERS AND RANKINGS				
	Mike	Tony	Fawn	KC	Eric
50-YARD DASH	3	5	10	4	7
DRIBBLE & TURN	4	10	2	7	11
STOP, TRAP, SHOOT	8	6	12	11	1
SIDELINE THROW-IN	12	8	7	1	5
ONE TOUCH & SHOOT	11	6	9	5	3
TOTALS					

1. Help Coach Franklin find the totals for each player and rank them.

PLAYER	Rank
Mike	
Tony	
Fawn	
KC	
Eric	

2. Coach Franklin will select five players to be his penalty kickers. Use the *Touch & Shoot* drill to find the 5 players with the lowest totals for their scores.

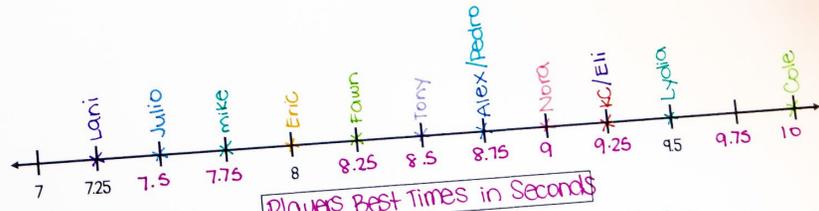


### SOCCER PRACTICE SKILLS AND DRILLS-LINE PLOT

Coach Franklin needs help plotting player's times running the 50-yard dash. The table below shows the best times his players ran the dash in seconds.

PLAYER	Mike	Tony	Fawn	KC	Eric	Julio	Nora	Eli	Cole	Lydia	Alex
50-YARD DASH	7.75	8.5	8.25	9.25	8	7.5	9	9.25	10	9.5	8.75

1. Write a title for the line plot in the box. 2. Fill in the missing times across the bottom of the line plot.



3. Place an X above the numbers to show the running times of each player on Coach Franklin's team.

4. List the 5 fastest runners and their times. Eric = 8 seconds



# TOWN MAP

Walnut Hill has eight soccer fields in four parks that will be used for the tournament games. The map shows the area of town where the parks are located. Use the map and key to answer the questions on the next three pages.



Walnut Hill Center Map and Key  
1 square = 0.25 of a mile

		Parking
K's Coffee		
Bank		
		Memorial Park and Recreation Center
Parking		

## TOWN MAP-WORD PROBLEMS-1



Walnut Hill Center Map and Key  
1 square = 0.25 of a mile



- 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.

*If only counting the southern blocks, he will have to travel six to arrive at the public parking. Each block is .25 miles, so  $6 \times .25 = 1.5$ . Therefore, he will drive 1.5 miles south to his destination.*
- 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 field?

*There are 3 blocks between the public parking and the town center park.  $3 \times 0.25 = 0.75$ . you walk  $\frac{3}{4}$  of a mile to get there.*
- 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.

*Memorial park is west of Town Center park. you will walk 13 blocks to memorial park.  $13 \times .25 = 3.25$  miles. you will have a 3.25 mile walk to Memorial Park!*
- 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 13.25 minutes to walk to the mall, how much time do you have to shop for new cleats?

*If it takes you 13.25 minutes to go 6 blocks ( $6 \times .25 = 1.5$ ), then it takes you  $13.25 / 1.5 = 8.83$  minutes to go a miles. you will need to leave  $8.83 \times .75 = 6.63$  minutes to get to the public parking. 60 minutes - 13.25 - 6.63 = 40 minutes you will have to shop.*

© Julia Becker

## 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

### 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.

Egg Sandwich	\$2.97	Muffin	\$1.39
Hamburger	\$3.68	Hotdog	\$2.80
French Fries	\$1.85	Bottled Water	\$1.43

- On Saturday, the Newcomer's Club sold 312 egg sandwiches and 257 muffins from 8:30 am to noon. How much money did they earn selling breakfast foods?  

$$312 \times \$2.97 = \$926.64$$

$$257 \times \$1.39 = \$357.25$$

$$\$926.64 + \$357.25 = \$1,283.89$$
- During lunchtime, they sold 416 hamburgers, 382 hotdogs, and 755 orders of French Fries. How much money did they earn selling food at lunchtime?  

$$416 \times \$3.68 = \$1,530.88$$

$$382 \times \$2.80 = \$1,069.60$$

$$755 \times \$1.85 = \$1,396.75$$

$$\$1,530.88 + \$1,069.60 + \$1,396.75 = \$3,997.23$$
- How much money did they earn...

## VOLUNTEER SCHEDULE-SATURDAY

Walnut Hill will use the Town Green, the 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 HALFTIME	PARKING LOT ATTENDANTS
Number of Volunteers	15	35	?	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	2 per field, in each time slot	4 per parking lot, in each time slot

- The information booth will be on the Town Green. Your father plans four 2-hour shifts, with volunteers working the first shift to greet players as they arrive. If three volunteers are needed for each 2-hour shift from 10:00-4:00, how many volunteers did your father plan for the first shift?  
\_\_\_\_\_
- The concession stand will serve breakfast and lunch. Eight workers are needed per shift. Your father planned for extra volunteers. How many extra volunteers are on the schedule?  
\_\_\_\_\_
- Lani's mom will work at the information booth from 2:00-4:00 pm and the concession stand from 7:30-9:30 am. How much time will she have between her shifts to watch the soccer tournament?  
\_\_\_\_\_

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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 *Numbers in Base Ten* and *Measurement and Data* to solve problems related to hosting a soccer tournament.

The following standards are addressed:

- 5.NBT.A.4 Use place value understanding to round decimals to any place.
- 5.NBT.B.5 Fluently multiply multi-digit whole numbers using the standard algorithm.
- 5.NBT.B.6 Find whole number quotients of whole numbers with up to four-digit dividends and two-digit divisor, using strategies based on place value, properties of operations, and/or relationship between multiplication and division.
- 5.NBT.B.7 Perform all operations with decimals to hundredths, using concrete models, drawings, and strategies based on place value, properties of operations, and/or the relationship between add./sub., relate to a written method and explain reasoning.
- 5.MD.A.1 Convert among different sized standard measurement units within a given measurement system. Use in solving multi-step real world problems.
- 5.MD.B.2 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.

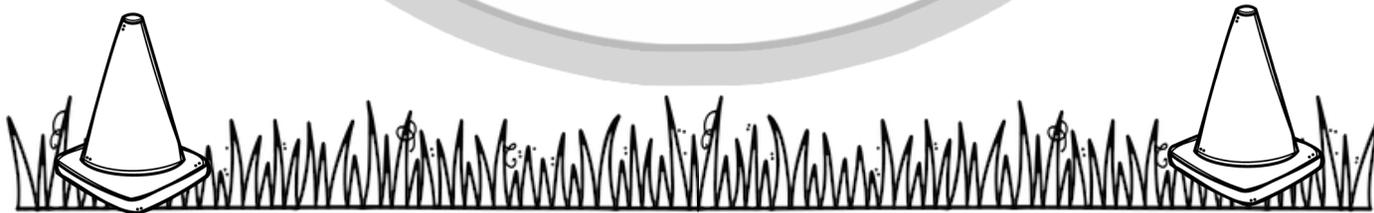


# ALL-STAR SOCCER TOURNAMENT

You love playing soccer and have played for the town league since you were in 2nd grade. Every year, in the fall, 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.



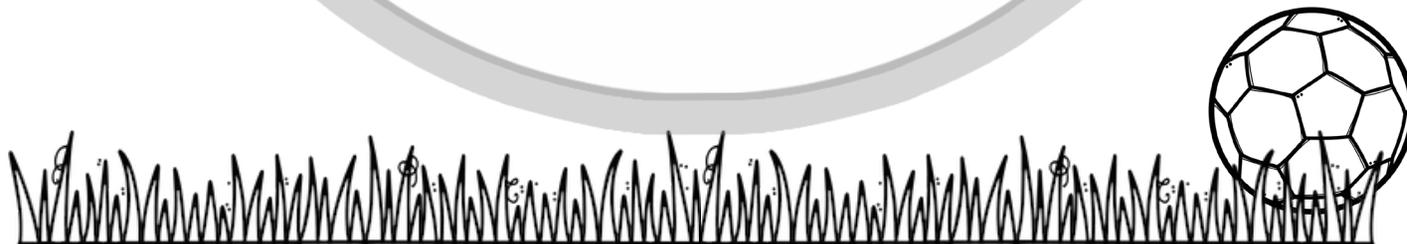
# WELCOME TO THE ALL-STAR SOCCER TOURNAMENT!

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 that 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 8<sup>th</sup> and 9<sup>th</sup>. 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-12 age group.

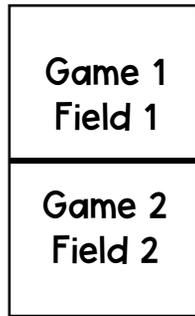
Team	Walnut Hill #1	Walnut Hill #2	Northfield #1	Northfield #2	Elm City #1	Elm City #2	Oak Creek #1	Oak Creek #2
Number of Players	13	19	16	20	18	14	12	15
Cost per Player	\$25.75 per player							
Team Total								

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 for 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-12 age groups? Show how you know.
4. How many soccer players are in the Under-12 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.



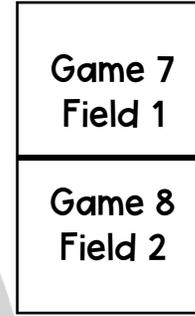
8:30 am



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 <sup>st</sup> , 2 <sup>nd</sup> , and 3 <sup>rd</sup> , MVP
Cost per	\$175.45	\$189.20	\$124.75 for bag of 5	\$8.88
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

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- The information booth will be on the Town Green. Your father plans four 2-hour shifts, with volunteers working the first shift to greet players as they arrive. If three volunteers are needed for each 2-hour shift from 10:00-4:00, how many volunteers did your father plan for the first shift?
- The concession stand will serve breakfast and lunch. Eight workers are needed per shift. Your father planned for extra volunteers. How many extra volunteers are on the schedule?
- Lani's mom will work at the information booth from 2:00-4:00 pm and the concession stand from 7:30-9:30 am. How much time will she have between her shifts to watch the soccer tournament?

# 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 1-13. 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	Nora	Eli	Cole	Lydia	Alex	Lani	Pedro
50-YARD DASH	3	5	10	4	1	9	13	12	11	2	7	8	6
DRIBBLE & TURN	4	10	2	7	6	1	11	3	13	8	5	12	9
STOP, TRAP, SHOOT	8	6	12	11	9	13	1	10	3	2	7	4	5
SIDELINE THROW-IN	12	8	7	1	6	9	4	2	3	5	13	11	10
ONE TOUCH & SHOOT	11	6	9	5	1	10	12	4	3	13	7	8	2
TOTALS													

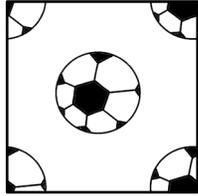
1. Help Coach Franklin find the totals for each player and rank them from lowest to highest.

PLAYER													
RANK													

2. Coach Franklin will select five players to be his penalty kickers. He will add the rankings for *Stop, Trap, Shoot* and *One Touch & Shoot* to find the 5 players with the lowest totals for the two skills. Determine the 5 penalty kickers. Include their scores.

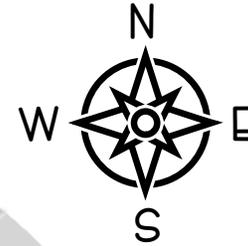


## TOWN MAP-WORD PROBLEMS-1



Walnut Hill Center Map and Key

 = 0.25 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 field?
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 13.25 minutes to walk to the mall, how much time do you have to shop for new cleats?

# SUNDAY SOCCER TOURNAMENT GAME TIMES

Below is the time schedule for Sunday's games. Each game will be played in two 25-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

AWARDS AT 1:30 PM

1. On Sunday, your first opponents are Oak Creek-Team 2. Julio sprained his ankle Saturday, so he won't be able to play today. Coach Franklin will need you to play more minutes. You play for 10.5 minutes and 11 minutes in the first half. In the second half you play 17 minutes and 6.5 minutes. How many minutes did you not play in the game?
2. Both Walnut Hill teams make it to the semi-final game, which is scheduled to start at 10:00 am. However, it starts 63 minutes late due to a rain delay. The game ends in a 3-3 tie and goes to overtime. After two 5-minute overtimes, your team wins by 1 goal. What time does the game end? Solve using the number line.  

3. Your team plays in the final game against Northfield-Team 2. Due to the earlier rain delay, the game doesn't begin until 12:27. It's a great game that ends with two 5-minute overtimes and two 5-minute penalty kick shootouts. How many minutes late will the award's ceremony begin? Show with a model.

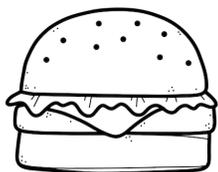


## CHALLENGE 1-CONCESSION STAND

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>	<i>\$2.97</i>	<i>Muffin</i>	<i>\$1.39</i>
<i>Hamburger</i>	<i>\$3.68</i>	<i>Hotdog</i>	<i>\$2.80</i>
<i>French Fries</i>	<i>\$1.85</i>	<i>Bottled Water</i>	<i>\$1.43</i>

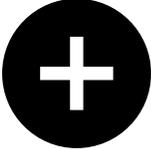
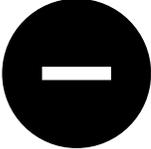
1. On Saturday, the Newcomer's Club sold 312 egg sandwiches and 257 muffins from 8:30 am to noon. How much money did they earn selling breakfast foods?
2. During lunchtime, they sold 416 hamburgers, 382 hotdogs, and 755 orders of French Fries. How much money did they earn selling food at lunchtime?
3. How much money did they earn on Saturday selling food?





# 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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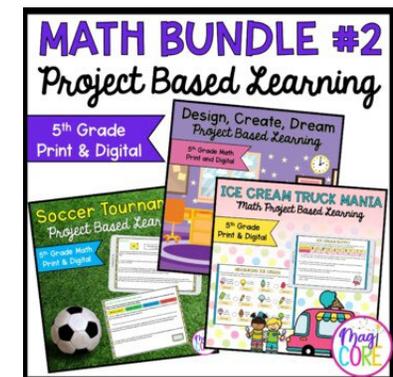
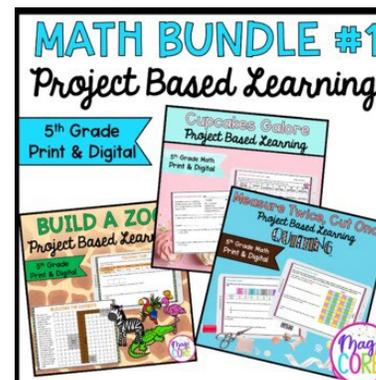


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