

Soccer Tournament

Project Based Learning

3rd Grade Print & Google Slides

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 1-10. Players ranked 1 are the top performer in the skill. Use the data below to answer the questions.

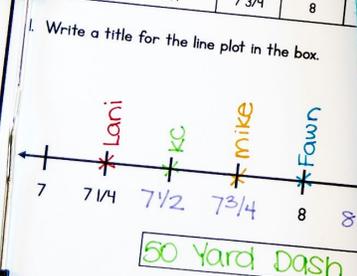
Drill	Julio	Cole	Lydia	Alex	Lani	Pedro
50-YARD DASH	5	2	6	8	3	9
DRIBBLE & TURN	8	5	7	4	10	2
STOP, TRAP, SHOOT	3	8	1	9	6	4
SIDELINE THROW	7	1	5	2	10	3
ONE TOUCH & PASS	4	6	3	1	8	5

- DRILL**
- 50-YARD DASH
 - DRIBBLE & TURN
 - STOP, TRAP, SHOOT
 - SIDELINE THROW
 - ONE TOUCH & PASS
- TOTALS**

- Help Coach Franklin plan strategies and player positions.
- Coach Franklin needs help plotting the best times his players ran the 50-yard dash.

Soccer Practice Skills and Drills-Rankings
 Coach Franklin needs help plotting the best times his players ran the 50-yard dash.

PLAYER	Mike	Fawn
50-YARD DASH	7 3/4	8



- Place an X above the numbers to show the running times.
- List the 5 fastest runners and their times.
 - Lani 7 1/4 seconds
 - KC 7 1/2 seconds
 - Mike 7 3/4 seconds
 - Fawn 8 seconds
 - Alex 8 1/4 seconds

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-10 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
Cost per Team	\$40.00 per team with up to 12 players							
Extra Players	\$5.00 per each additional player							
Number of Players	13	11	12	14	12	11	14	13
Total Cost for Team to Play	\$45	\$40	\$40	\$45	\$40	\$40	\$45	\$45

- Complete the table to determine the total cost for each team to play in the tournament. Show how you know.
 The table shows the cost of each team according to its team size. The chart shows the team size.
- What is the total amount of money your father collected in registration fees from all the teams in the Under-10 age group? Show how you know.
 $45 + 40 + 40 + 45 + 40 + 40 + 45 + 45 = 340$
 \$340 from all
- How many soccer players are in the Under-10 age group?
 $13 + 11 + 12 + 14 + 12 + 11 + 14 + 13 = 100$



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.



Key

SOCCER PRACTICE SKILLS AND DRILLS-RANKINGS

Coach Franklin uses practice drills to help him plan strategies and plan the rankings of each player in five drills from 1-10. Use the data below to answer the questions.

	Parking	
K's Coffee		
Bar		

5
DRILL
STOP
SIDE
ONE TO

1. Help Coach

2. Co

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 of 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 event.

This year's tournament is scheduled for October 8th. 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.



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 second graders in the All-Star League. Hosting a soccer game also gives children a chance to play soccer. The soccer game is played on a field that is filled with grass. The field is...

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

 = 1/10 of a mile



TOWN MAP-WORD PROBLEMS-1



Walnut Hill Center Map and Key

 = 1/10 of a mile



1. Your first game 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? Explain.
He will need to drive South six blocks to get to the public parking area.
2. Once your father parks the car, you walk through the bus barn property to get to Town Center Park. How many blocks do you walk?
We will have to walk three blocks to get to the town center park.
3. Your second game will be played at Plum Orchard Park. How many blocks north will you walk to get to the public parking lot because it will be...

• 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 1-10. Players ranked 1 are the top performer in the skill. Use the data below to answer the questions.

PLAYERS AND RANKINGS

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



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. 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:

- 3.OA.A.1 Interpret products of whole numbers.
- 3.OA.A.2 Interpret whole number quotients.
- 3.OA.A.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays and measurement, quantities.
- 3.OA.D.8 Solve 2-step problems using the four operations.
- 3.NBT.A.2 Fluently add and subtract within 1000 using strategies and algorithms based on properties of operations and/or the relationship between add/sub.
- 3.NBT.A.3 Multiply 1-digit numbers by multiples of 10 in the range 10–90 using strategies based on place value and properties.
- 3.MD.A.1 Tell time, write time to the nearest minutes, and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes.
- 3.MD.B.4 Generate measurement data by measuring lengths using rulers marked with wholes, halves, and fourths of an inch. Show data by making a line plot, where the horizontal scale is marked off in appropriate units.

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.

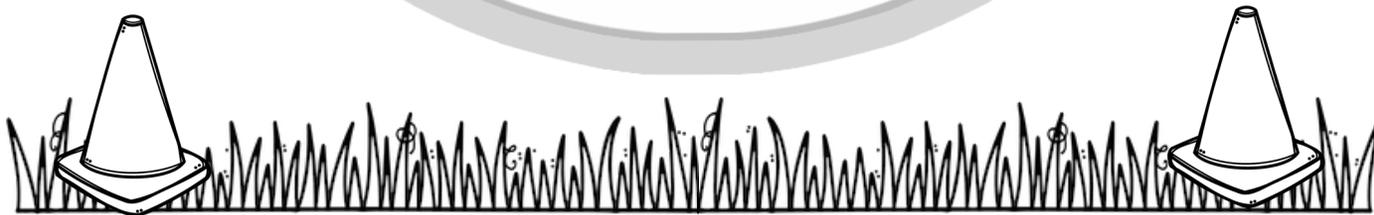


ALL-STAR SOCCER TOURNAMENT

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



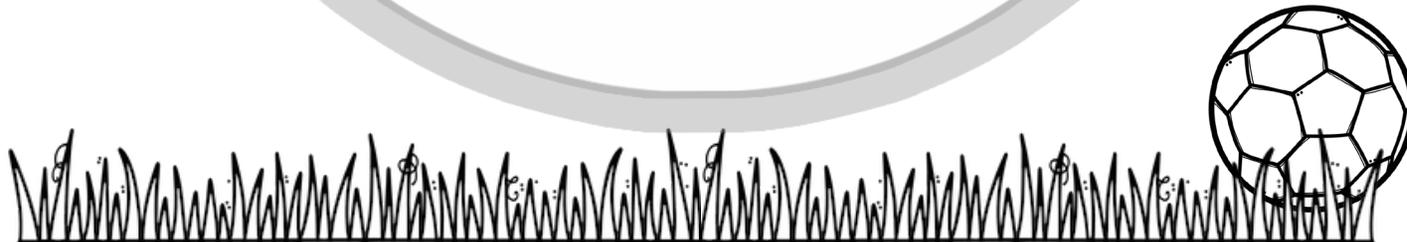
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Total Cost for Team to Play								

- Complete the table to determine the total cost for each team to play in the tournament. Show how you know.
- What is the total amount of money your father collected in registration fees from all the teams in the Under-10 age group? Show how you know.
- How many soccer players are in the Under-10 age group?



BUDGET-HIRING REFEREES-2

Use the 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.

Game 1 Field 1
Game 2 Field 2

8:30 am

Game 3 Field 1
Game 4 Field 2

10:00 am

Game 5 Field 1
Game 6 Field 2

11:30 am

Game 7 Field 1
Game 8 Field 2

1:30 pm

SATURDAY'S GAMES AT MURRAY PARK

3. We know that there are four parks in Walnut Hill where games will be played. Each park will follow the model you drew. What is the total number of referees needed to referee all of Saturday's games? Draw an array to show your thinking.
4. All referees will earn the same amount of money. Calculate how much it will cost to hire referees for the soccer tournament. Draw a model to show your thinking.



BUDGET-ADDITIONAL EXPENSES

The table shows expenses per park for Saturday. Use the data in the table to answer the questions.

	4 Referees per Park	2 Porta-Potties per Park	6 Soccer Balls per Park
Total Cost per Park	\$96.00	\$120.00	\$15.00
What is the total cost for the tournament?	$90 + 90 + 90 + 90 =$ $6 + 6 + 6 + 6 =$		
Use break-apart method to calculate.	$\underline{\quad} + \underline{\quad} = \boxed{\quad}$	$\underline{\quad} + \underline{\quad} = \boxed{\quad}$	$\underline{\quad} + \underline{\quad} = \boxed{\quad}$

- Use the break-apart method to help your father determine the total expenses for the tournament. Show your work in the table. The first one is started for you.
- What is the total cost for additional expenses? Show your work below.
- How many soccer balls will be used at each field. Use division to solve.

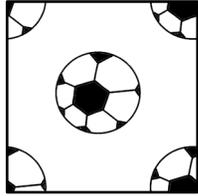
VOLUNTEERS-WORD PROBLEMS-1

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	PARKING LOT ATTENDANTS
Number of Volunteers	10	23	40
Time Slots	8:00 am to 10:00 am 10:00 am to 12:00 pm 12:00 pm to 2:00 pm 2:00 pm to 4:00 pm	7:30 am to 9:30 am 9:30 am to 11:30 am 11:30 am to 1:30 pm 1:30 pm to 3:30 pm	7:00 am to 9:00 am 9:00 am to 11:00 am
Number Needed for Each Time Slot	varies	5 per time slot	varies

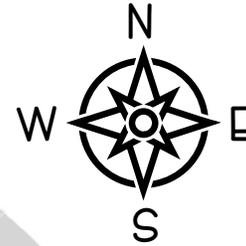
- The information booth will be set up on the Town Green. Your father planned four 2-hour shifts. More volunteers are needed to work the first shift to greet players as they arrive. If two volunteers are needed for each 2-hour shift from 10:00–4:00, how many volunteers did your father plan for the first shift?
- The concession stand will serve breakfast and lunch. Your father wants 5 volunteers per shift. He planned for more volunteers than needed. How many extra volunteers are on the schedule? Show with a model.

TOWN MAP-WORD PROBLEMS-1



Walnut Hill Center Map and Key

 = 1/10 of a mile



1. Your first game 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? Explain.
2. Once your father parks the car, you walk through the bus barn property to get to Town Center Park. How many blocks do you walk?
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. In what direction will you walk?
4. Your soccer cleats are too small. After your second game, 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 15 minutes to walk to the mall, how much time do you have to shop for new cleats? Show with an equation.

ALL-STAR SOCCER TOURNAMENT SCHEDULE-1

Below is the time schedule for Saturday's games. It is the same at all four parks. 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

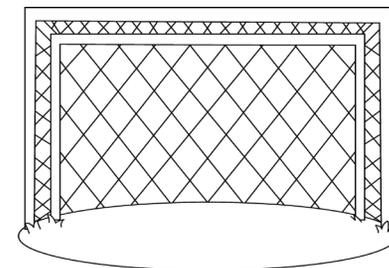
TIME SLOT 4--1:30 PM

1. You are on Walnut Hill-Team 1. Your first game began at 8:40 am because the Northfield-Team 1 arrived late. What time did the game end? Solve using the number line.



2. Elm City Team-2 is playing at 10:00 am on the same field you played your first game. How many minutes do they have to warm up before their game starts? Use question 1 to help you answer.

3. Oak Creek Team-2 plays Walnut Hill Team-2 at 11:30 am. The game ends in a 2-2 tie and goes into overtime. They play two 5-minute overtimes. What time does the game end?

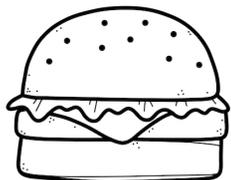


CHALLENGE 1-CONCESSION STAND

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.

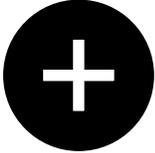
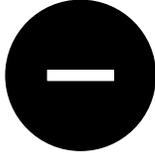
<i>Egg Sandwich</i>	\$2.00	<i>Muffin</i>	\$1.00
<i>Hamburger</i>	\$3.00	<i>Hotdog</i>	\$2.00
<i>French Fries</i>	\$2.00	<i>Bottled Water</i>	\$1.50

1. On Saturday, the Newcomer's Club sold 150 egg sandwiches and 240 muffins from 8:30 am to noon. How much money did they earn selling breakfast foods?
2. During lunchtime, they sold 300 hamburgers, 250 hotdogs, and 500 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.

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

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Not O.K.

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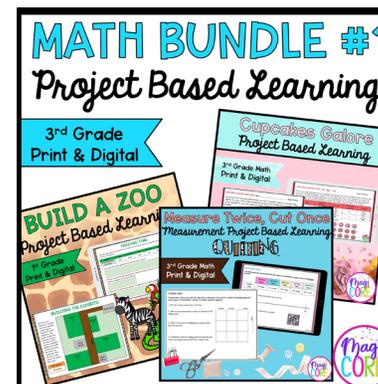


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