

Educational Packet



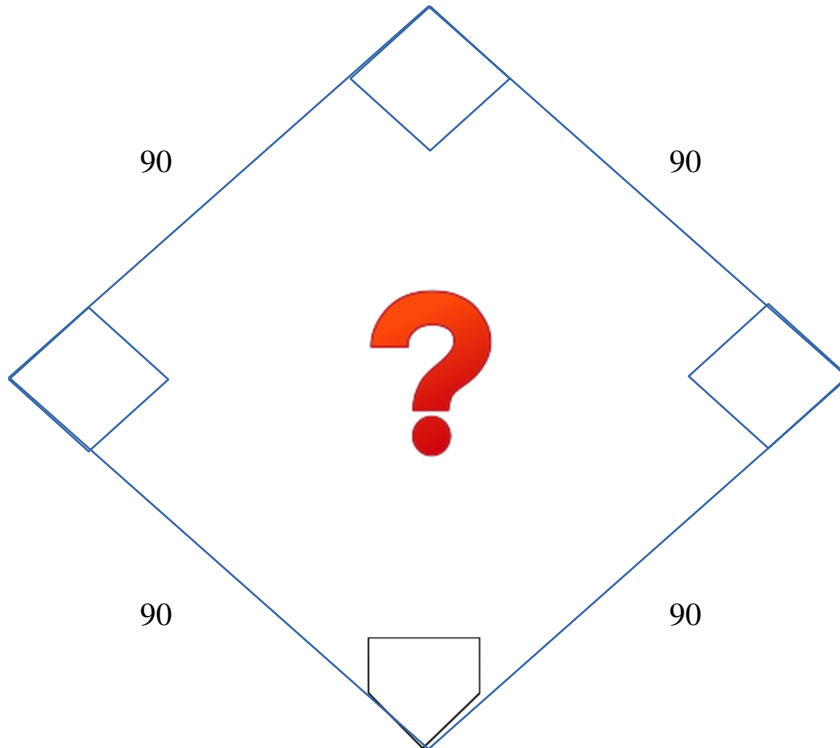
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Brain Busters

Buster needs your help! Using what you learned in school, can you solve these problems for him?

1) Buster knows that there are 90 feet between each base. However, he has to mow the infield grass, and he needs to know the area of the infield to do that. Using the diagram below, can you figure out what the total area of the infield is?



Answer: _____



2) Buster loves taking road trips with the team to cheer on the BlueClaws! The only problem is, they have 3 stops to make and it's Buster's job to figure out how many miles they have to travel. The road trip is in this order: **Lakewood to Delmarva, Delmarva to Hagerstown, Hagerstown to Greensboro, and Greensboro back to Lakewood**. Using the below chart, can you figure out for Buster how many total miles they have to drive?

	Asheville	Augusta	Charleston	Columbia	Delmarva	Greensboro	Greenville	Hagerstown	Hickory	Kannapolis	Lakewood	Lexington	Rome	West Virginia
Asheville Tourists	miles h:mm	180 3:11	268 4:04	158 2:29	543 8:57	174 2:45	60 1:17	454 7:05	79 1:19	138 2:23	686 10:41	287 4:33	215 4:03	294 4:47
Augusta GreenJackets	180 3:11		164 2:41	74 1:11	588 9:01	252 3:49	111 2:16	565 8:20	213 3:13	189 2:53	745 10:56	455 7:16	222 3:23	425 6:22
Charleston RiverDogs	268 4:04	164 2:41		119 1:48	549 9:50	273 4:28	214 3:15	598 8:57	259 3:56	236 3:34	743 11:17	542 8:21	359 6:22	471 7:17
Columbia Fireflies	158 2:29	74 1:11	119 1:48		519 8:20	182 2:49	105 1:38	497 7:37	142 2:12	119 1:51	690 10:30	433 6:44	291 4:28	354 5:34
Delmarva Shorebirds (Salisbury, MD)	543 8:57	588 9:01	549 9:50	519 8:20		371 6:22	560 9:14	178 3:11	471 7:50	435 7:17	197 3:29	640 10:09	783 12:15	469 7:32
Greensboro Grasshoppers	174 2:45	252 3:49	273 4:28	182 2:49	371 6:22		191 3:01	321 5:20	103 1:38	66 1:04	491 8:16	417 6:37	396 6:08	244 3:59
Greenville Drive	60 1:17	111 2:16	214 3:15	105 1:38	560 9:14	191 3:01		497 7:48	118 1:54	128 2:03	696 10:51	339 5:29	208 3:17	361 5:45
Hagerstown Suns	454 7:05	565 8:20	598 8:57	497 7:37	178 3:11	321 5:20	497 7:48		398 6:10	399 6:20	226 4:05	466 7:15	638 9:51	294 4:39
Hickory Crawdads	79 1:19	213 3:13	259 3:56	142 2:12	471 7:50	103 1:38	118 1:54	398 6:10		66 1:16	615 9:35	362 5:42	323 5:00	256 4:08
Kannapolis Cannon Ballers	129 2:18	188 2:47	234 3:25	119 1:51	434 7:06	69 1:04	126 2:03	397 6:00	65 1:14		572 8:36	428 6:37	327 4:56	254 4:10
Lakewood BlueClaws	686 10:41	745 10:56	743 11:17	690 10:30	197 3:29	491 8:16	696 10:51	226 4:05	615 9:35	571 8:54		691 10:50	855 13:15	519 8:14
Lexington Legends	287 4:33	455 7:16	542 8:21	433 6:44	640 10:09	417 6:37	339 5:29	466 7:15	362 5:42	420 6:46	691 10:50		339 5:18	174 2:41
Rome Braves	215 4:03	222 3:23	359 6:22	291 4:28	783 12:15	396 6:08	208 3:17	638 9:51	323 5:00	328 5:09	855 13:15	339 5:18		479 7:34
West Virginia Power (Charleston, WV)	294 4:47	425 6:22	471 7:17	354 5:34	469 7:32	244 3:59	361 5:45	294 4:39	256 4:08	255 4:17	519 8:14	174 2:41	479 7:34	

Answer: _____

3) Buster says he's been practicing his hitting. If the farthest Buster can hit the baseball is 257 feet, and the left field wall is 330 feet, and the center field wall is 400 feet, how many more feet does Buster need to hit the ball to hit it out of the park a) in left field, and b) in center field?

A) Answer: _____

B) Answer: _____

4) Have you seen the BlueClaws new scoreboard? It's really big- 55 feet by 34 feet. Buster wants to put a picture of himself up, but the team needs 20 feet of the scoreboard for keeping score. Using the diagram below, how wide can the picture of Buster be? BONUS: How many square feet can Buster's picture be?

34
Ft



20 Feet

?

Answer: _____

BONUS: _____



5) Buster has a heck of an arm! He can throw it all the way from the centerfield wall, which is 400 feet from home plate, to second base, which is 120 feet from home plate. How far can Buster throw the ball?

Answer: _____

6) Buster's famous belly is 78 inches around. If Fred has a waist of 30 inches around, how much bigger is Buster's waist than Fred's?

Answer: _____

7) Buster buys 12 boxes of Cracker Jacks from the third base concession stand. He gives 8 of them away to his fans, eats another one, and then buys 7 more. How many does he have?

Answer: _____



8) Materials Needed: poster board, art supplies

Break students into small groups to create posters presenting an idea for a hypothetical new baseball team in your hometown. Students must consider the following geographical criteria in creating their team:

- Hometown population and population density
- Team name
- Mascot (consider area animals, physical geography, and or history)
- How will the stadium reflect environment
- What kind of food will the stadium sell (local specialties?)
- What kind of unique souvenirs will they sell



Once they are done creating their projects, have them present the poster to the class, pretending they are presenting to the Major League Baseball Board of Directors.



9) The Phillie Phanatic loves visiting his friend Buster. If the Phanatic rides his ATV from Citizens Bank Park to FirstEnergy Park at 24 miles per hour and he gets there in 3 hours, how far away is FirstEnergy Park from Citizens Bank Park?

Answer: _____

10) Buster once hit for the cycle- a single, a double, a triple, a home run in the same game. How many total feet did Buster run in that game if the distance between each base is 90 feet?

Answer: _____

11) FirstEnergy Park has 6,588 seats. If 8,000 people come into the game, how many people do not have seats?

Answer: _____

12) Buster is excited that the BlueClaws nearly sold out! 7,299 people came to the game, and if each car holds an average of 3 people,

a) How many cars are in the parking lot?

b) How much money in total will be made if the BlueClaws charge \$5 per car?

A) Answer: _____

B) Answer: _____

13) The longest game in BlueClaws history lasted 22 innings for a total of 7 hours and 47 minutes. How many minutes did the game last?

Answer: _____

14) At the start of the game, there are 300 baseballs that are available for use during the game. If 3 players hit home runs, 2 get ground rule doubles (the ball bounces into the stands), 49 foul balls are hit into the stands, and players throw 8 baseballs to fans in the crowd, how many baseballs are left?



Answer: _____

15) If there are 9 innings in a game, and the BlueClaws play 140 games with seven of them going into the 10th inning and three of them going into the 11th inning, how many innings are played in the season?

Answer: _____

16) If the BlueClaws travel to Rome, Georgia to play the Rome Braves, they have to travel 826 miles. How many feet are in 826 miles?

Answer: _____

17) In the playoffs, the Phillies play a best-of-five series and two best-of-seven series.

A) What is the least amount of games the Phillies can play and win the World Series?

B) What is the most games the Phillies can play and win the World Series?

A) Answer: _____

B) Answer: _____

(answers on next page)

Answer Key

1) 8100 sq. feet

2) 1,143 miles

3A) 73 Feet

3B) 143 Feet

4) 35 Feet

BONUS: 1,190 sq. feet

5) 280 Feet

6) 4 feet (48 inches)

7) 10 boxes

8) Do In Class

9) 72 miles

10) 900 feet

11) 1,412 people

12a) 2,433 cars

12b) \$12,165

13) 467 minutes

14) 238 baseballs

15) 1,273 innings

16) 4,361,280

17a) 11 games

17b) 19 games