

The journey around coordinate plane.

The aim: to plot the routes on coordinate plane for Oscar to visit theatres.

Tasks:

- To learn the words to the topic
- To know how to find coordinates of the point
- To be able to plot points on coordinate plane

Handouts:

Task1. You have to guess the name of the Theatre you are going to take Oscar to.

To do it you`ll do sums. The answer to each sum is the definite number. Each number that is the answer stands for a letter of the English Alphabet.

Instructions to Task 1.

1. Do sums and find the answer.
2. Match the answer of each sum with the letter of the English alphabet.
3. Write the name of the theatre you are going to take Oscar to

Group 1

	50:2-3	22	V
	(80-50):2	15	O
	16·2-20	12	L
	(45-25):2+1	11	K
	(80-50):2	15	O
	50:2-3	22	V

4. Task 1 group 2

	100-(30·3-6)	16	P
	30·(14-7):10	21	U
	100-(30·3-6)	16	P
	100-(30·3-6)	16	P
	100·5:50-5	5	E
	800:10-30·2	20	T

5. Task 1. Group 3.

	(45-30):5	3	C
	15·3-(15+22)	8	H
	(30+20): (170-120)	1	A
	(60+3):7+4	13	M
	18:2-35:5	2	B
	100·5:50-5	5	E
	380:20-1	18	R

Alphabet

A	B	C	D	E	F	G	H	I	G	K	L	M	N	O	P	Q	R	S	T
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
U	V	W	X	Y	Z														
21	22	23	24	25	26														

Task 2. We have to meet our friend at the railway station and plot this point on our coordinate plane. You have 4 points with their ordered pairs.

Instructions to task 2:

Group 1, 2 , 3

1. Plot 4 points on the coordinate plane. A (15;1) B (20; 4) C(13;6) D (18;1)
2. Connect them to make segments AB and CD
3. Find the point of intersection of the segments AB and CD
4. Plot this point on the coordinate plane
5. Transfer it on the flipchart of your group

The answer is (17;2)

Task 3. We have met Oscar at the railway station and now let's take him to lunch. You have several ordered pairs with the definite x and y coordinates. On your sheet of paper where you see coordinate plane find the letters with these coordinates and these letters will be the name of the café you'll take Oscar to. The last letter will be the point for the place you are going to take Oscar

Instructions for task 3.

1. Find letters with the following coordinates
2. Make the name of the place you are going to take Oscar for dinner
3. Plot the last point on the coordinate plane
4. Transfer it on the flipchart of your group

Each group is supposed to pronounce the name of the café or a restaurant and pronounce coordinates of the last point.

Task 3 group 1.

(27;22), (22;5), (15;10), (6;2), (27;9), (15;10), (20;17), (10;14), (3;7), (6;2).

Task 3. Group 2

(17;9), (6;11), (23;15), (6;11), (3;2).

Task 3 Group 3.

(18;8), (5;2), (18;8), (5;2), (18;8), (27;5);(5,2)

1 group: Burger King (6;2)

2 group: Bazar (3;2)

3 group: Mama Mia (5;2)

Task 4. After having meals we have to take Oscar around our beautiful city. You have to plot the points on the coordinate plane. These points are the places of interest you'll take Oscar around.

Instructions for task 4.

1. Solve equations and find either x or y coordinate
2. Plot this point with the necessary coordinates on the coordinate plane
3. Do not forget to transfer the point on the flipchart of your group

Group 1

equation	ordered pair	Answer
1) $2x+5=17$	(x ; 17)	(6;17)
2) $10x+15=105$	(x ; 17)	(9;17)
3) $2(y-1)=34$	(9; y)	(9;18)

Group 2

equation	ordered pair	answer
1) $10x=30$	(x ; 17)	(3,17)
2) $15x-15=60$	(x ; 21)	(5,21)
3) $40y-39y+1=18$	(7; y)	(7,17)
4) $2x+16=42$	(x ; 17)	(13,17)

Group 3

equation	Ordered pair	answer
1) $3x-11=4$	(x ; 18)	(5,18)
2) $15x-7x+5=69$	(x ; 21)	(8,21)
3) $y+3=21$	(11; y)	(11,18)
4) $33x-28x-6=49$	(x ; 16)	(11,16)

Task 5. It is the last task for you. You have to plot the point of the theatre you are going to take Oscar to on the coordinate plane.

Instructions to task 5.

1. Solve the problem and find x and y coordinates of the point
2. Plot this point on the coordinate plane
3. Do not forget to transfer the point into the flipchart of your group

Task for the 5 task:

Group 1.

During the 1 day Carlson ate 10 jars of jam. During the 2 he ate 3 jars less. How many jars of jam did Carlson eat during the 1 and the 2 day.

How many jars of jam did the Kid eat if he ate 6 jars more than Carlson.

The answer(17;23)

Group 2.

The length of Mary's rope is 34 meters. She cut off half of it. What length of the rope did she cut off ?

Al ex's rope is 7 meters shorter than Mary's. What is its length?

The answer (17;11)

Group 3:

5 passengers got out of the bus and 11 got on at the 1 stop.

3 passengers got off and 9 got on at the 2 stop. How many passengers are there in the bus now if we know there were 5 passengers in the beginning.

How many passengers were on the tram if we know that there were 7 people more than on the bus .

The answer (17;24)

Instructions to task 5:

1. Solve the problem and find the answer. The 1 answer is x -coordinate, the 2 -y coordinate
2. Plot the point of the theatre with these coordinates on the coordinate plane
3. Do not forget to transfer it on your flipchart

Task 6:

Draw the part of the building of the theatre you are going to take Oscar using squares of the flipchart.

Reflection.

They come to Pollev.com, join presentation annaivanova271 and type their answer to the question they see on the screen: What have you learnt today?

H/W: write a letter to Oscar and attach the routs you have plotted on your coordinate plane.

