

Spring Term 1.

Week 1.

Friday 9th January 2021.

Week 1:

Geometry – Co-ordinates in four quadrants.

Before you write the date,
answer the following:



16	$3^3 =$	<input type="text"/>	<input type="checkbox"/> 1 mark

17	$101 \times 1,000 =$	<input type="text"/>	<input type="checkbox"/> 1 mark

18	20% of 3,000 =	<input type="text"/>	<input type="checkbox"/> 1 mark

Date: Week 1



Title: Co-ordinates

Title	Ingredients
Quadrants	<ul style="list-style-type: none">- 2 quadrants- 4 Quadrants- Negative numbers- Reflections/translations/rotations in the X and Y axis

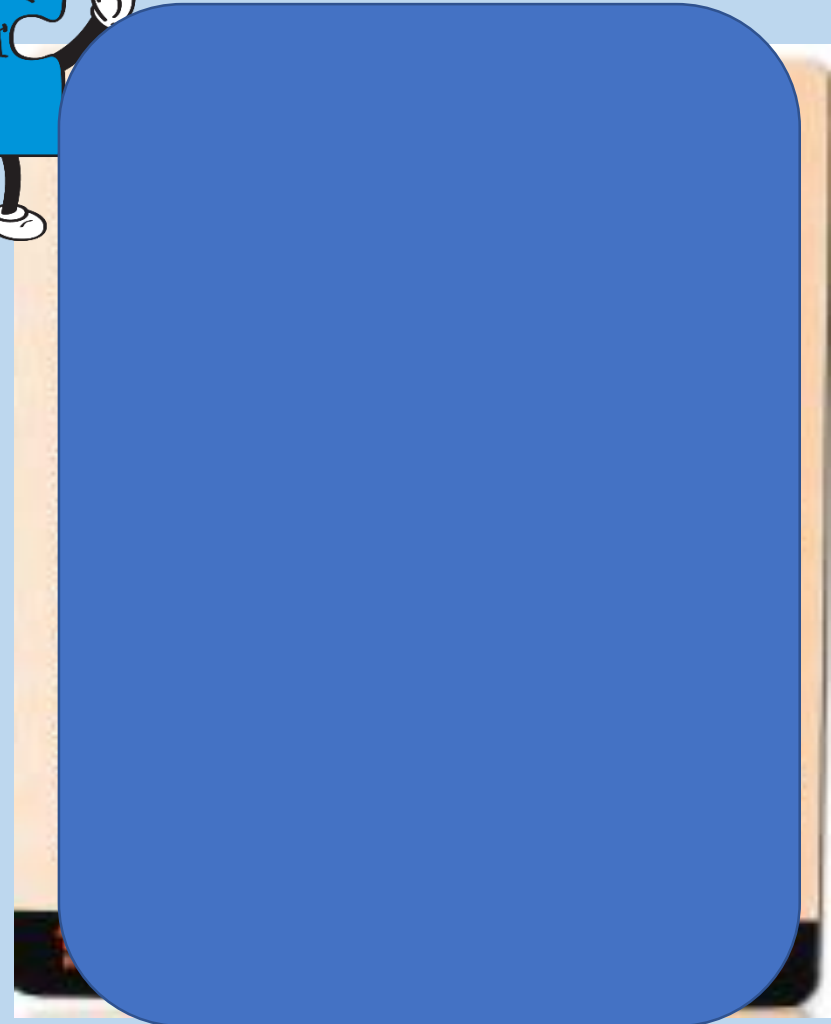
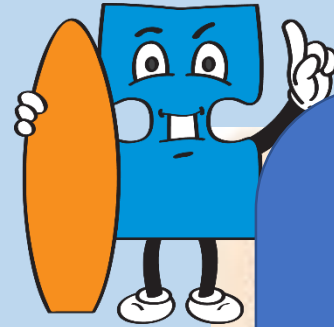
Key words/terminology:

LORIC task

MAKING MUSIC

Mr Lutz gives lessons to five talented musicians. He teaches from Monday to Friday and spends a day with each musician. All the students play different instruments. Tuesday is the day the flautist has his lesson. Sally plays the piano and does not have her lesson on Monday or Friday. Will's lesson is later in the week than Tom's, while Val, who is not a guitarist, has her lesson before either of them. The clarinet player has his lesson the day before Roy. Roy is not the musician who plays violin.

Which musician plays which instrument and on what day of the week are their lessons?



Co-ordinates in the first (positive) quadrant.

Adding and subtracting negative numbers.

Answer the following questions in your book:

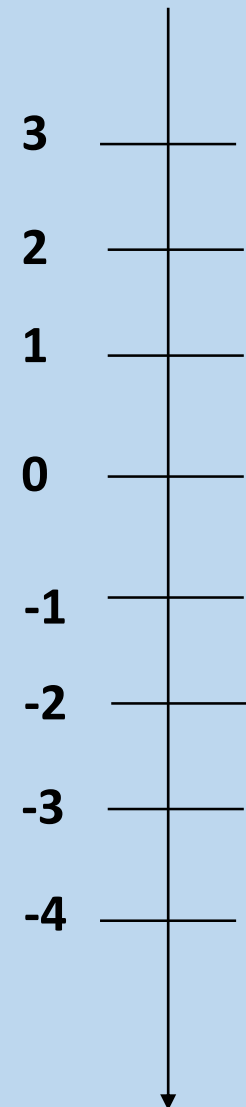
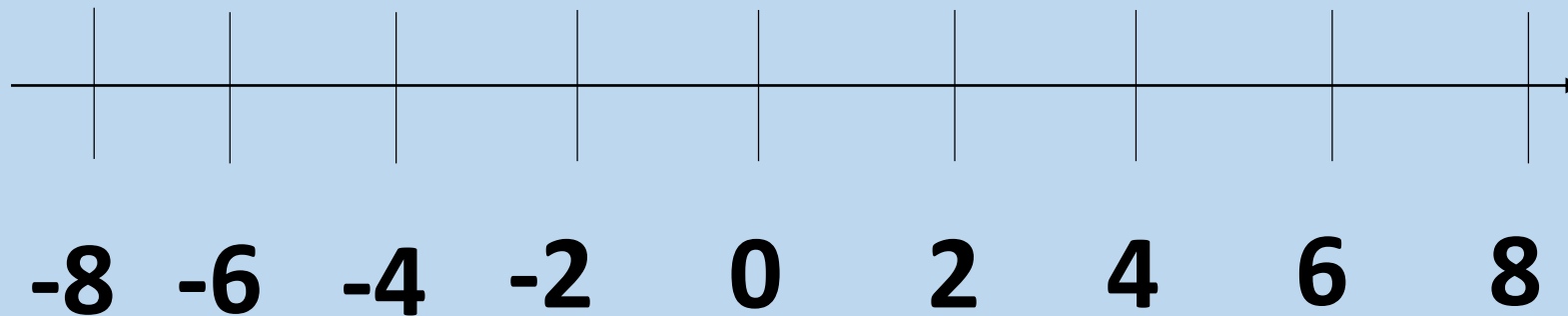
1). $6 - 11 =$

2). $-3 + 7 =$

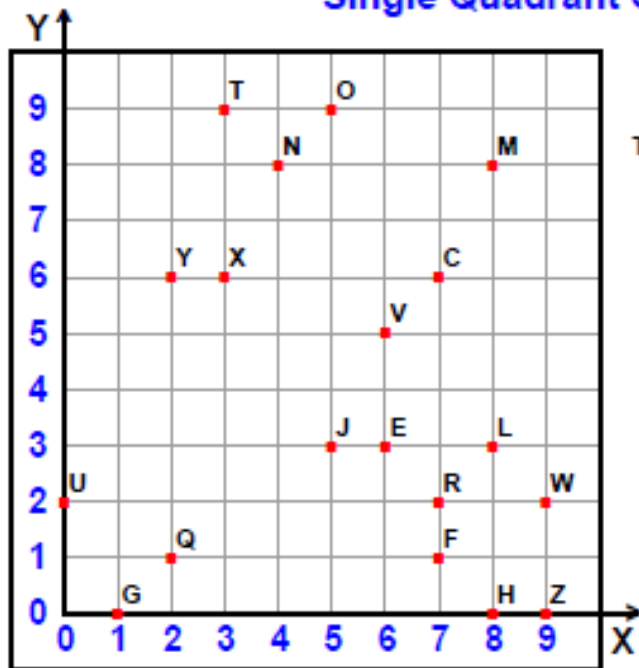
3). $-7 + 12 =$

When we add and subtract negative numbers we move along a number line to the left for the negative numbers/

If we are using a vertical number line (a bit like an elevator) we go down for the negative numbers. The bigger the number the lower you go!



Single Quadrant Ordered Pairs



Tell what point is located at each ordered pair.

- | | |
|----------------|-----------------|
| 1) (5,9) _____ | 6) (0,2) _____ |
| 2) (8,3) _____ | 7) (3,6) _____ |
| 3) (5,3) _____ | 8) (7,6) _____ |
| 4) (7,1) _____ | 9) (1,0) _____ |
| 5) (9,0) _____ | 10) (6,3) _____ |

Write the ordered pair for each given point.

- | | | |
|-------------|-------------|-------------|
| 11) W _____ | 14) N _____ | 17) Y _____ |
| 12) M _____ | 15) R _____ | 18) T _____ |
| 13) H _____ | 16) Q _____ | 19) V _____ |

Plot the following points on the coordinate grid.

- | | | |
|-------------|-------------|-------------|
| 20) D (4,1) | 22) A (8,5) | 24) I (2,9) |
| 21) S (2,4) | 23) K (7,7) | 25) P (7,0) |

Remember the rules:

1st: Go up along the corridor (X before Y),
Then up the stairs!

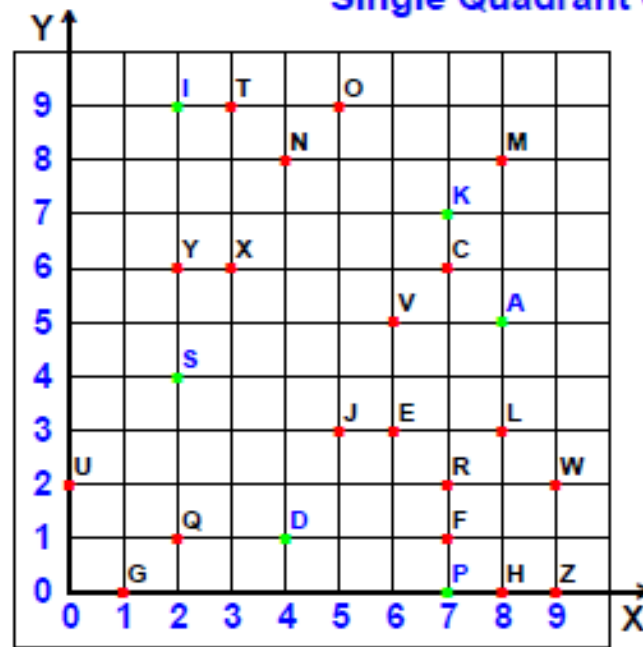
X = Horizontal Axis
Y = Vertical Axis

Answers:

X = Horizontal Axis

Y = Vertical Axis

Single Quadrant Ordered Pairs



Tell what point is located at each ordered pair.

- | | |
|--------------------|--------------------|
| 1) (5,9) <u>O</u> | 6) (0,2) <u>U</u> |
| 2) (8,3) <u>L</u> | 7) (3,6) <u>X</u> |
| 3) (5,3) <u>J</u> | 8) (7,6) <u>C</u> |
| 4) (7,1) <u>F</u> | 9) (1,0) <u>G</u> |
| 5) (9,0) <u>Z</u> | 10) (6,3) <u>E</u> |

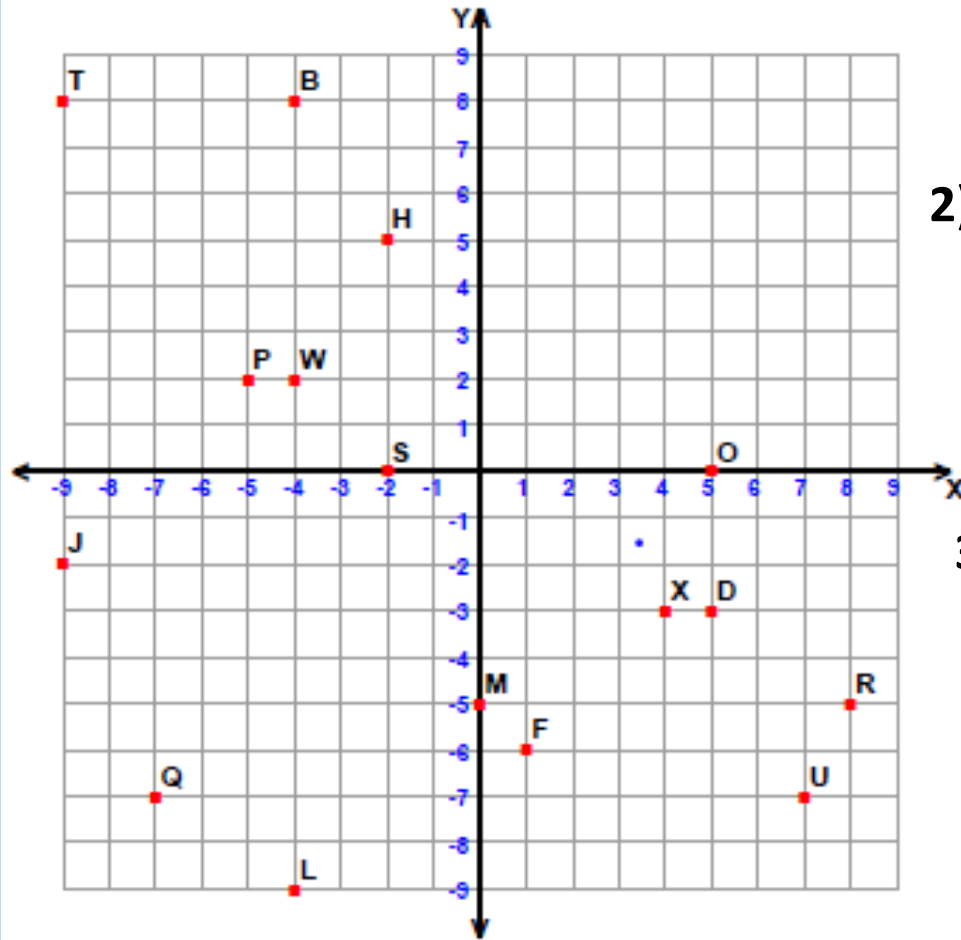
Write the ordered pair for each given point.

- | | | |
|--------------------|--------------------|--------------------|
| 11) W <u>(9,2)</u> | 14) N <u>(4,8)</u> | 17) Y <u>(2,6)</u> |
| 12) M <u>(8,8)</u> | 15) R <u>(7,2)</u> | 18) T <u>(3,9)</u> |
| 13) H <u>(8,0)</u> | 16) Q <u>(2,1)</u> | 19) V <u>(6,5)</u> |

Plot the following points on the coordinate grid.

- | | | |
|-------------|-------------|-------------|
| 20) D (4,1) | 22) A (8,5) | 24) I (2,9) |
| 21) S (2,4) | 23) K (7,7) | 25) P (7,0) |

Four Quadrant Ordered Pairs



1).

Tell what point is located at each ordered pair.

1) $(+5,-3)$ ____ 3) $(-9,+8)$ ____ 5) $(-4,-9)$ ____ 7) $(+7,-7)$ ____

2) $(+1,-6)$ ____ 4) $(-7,-7)$ ____ 6) $(+4,-3)$ ____ 8) $(+0,-5)$ ____

2).

Write the ordered pair for each given point.

9) R ____ 11) H ____ 13) W ____ 15) S ____

10) P ____ 12) O ____ 14) B ____ 16) J ____

3).

Plot the following points on the coordinate grid.

17) K $(-8,+7)$ 19) N $(-3,-3)$ 21) C $(+7,-2)$ 23) G $(-5,+4)$

18) A $(-2,+1)$ 20) I $(-3,-9)$ 22) Y $(+4,+8)$ 24) V $(-7,+9)$

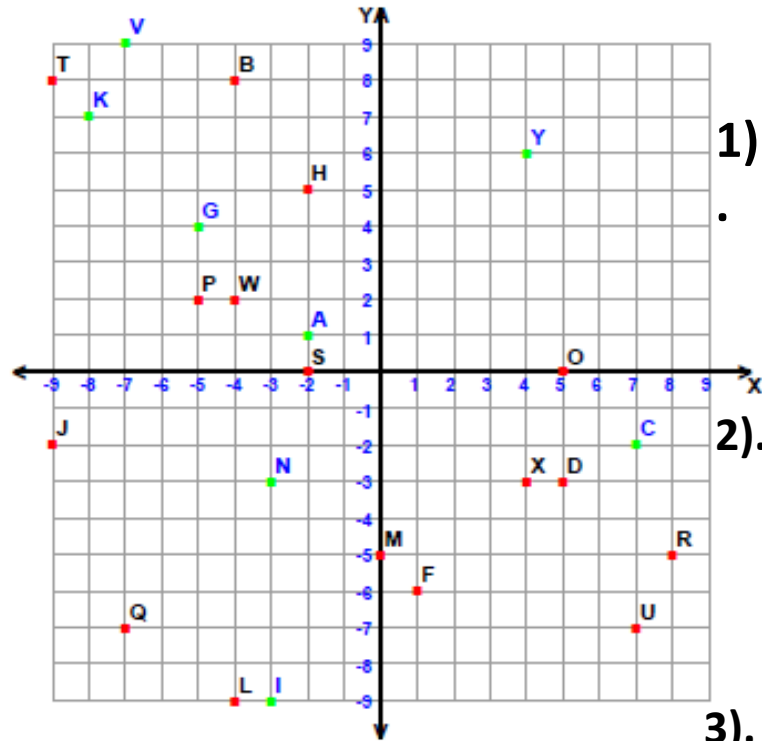
Remember the rules:

1st: Go up along the corridor (X before Y),
Then up the stairs!

X = Horizontal Axis

Y = Vertical Axis

Four Quadrant Ordered Pairs



X = Horizontal Axis

Y = Vertical Axis

Answers:

1) Tell what point is located at each ordered pair.

- | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 1) $(+5,-3)$ <u>D</u> | 3) $(-9,+8)$ <u>T</u> | 5) $(-4,-9)$ <u>L</u> | 7) $(+7,-7)$ <u>U</u> |
| 2) $(+1,-6)$ <u>F</u> | 4) $(-7,-7)$ <u>Q</u> | 6) $(+4,-3)$ <u>X</u> | 8) $(+0,-5)$ <u>M</u> |

2). Write the ordered pair for each given point.

- | | | | |
|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 9) R <u>$(+8,-5)$</u> | 11) H <u>$(-2,+5)$</u> | 13) W <u>$(-4,+2)$</u> | 15) S <u>$(-2,+0)$</u> |
| 10) P <u>$(-5,+2)$</u> | 12) O <u>$(+5,+0)$</u> | 14) B <u>$(-4,+8)$</u> | 16) J <u>$(-9,-2)$</u> |

3). Plot the following points on the coordinate grid.

- | | | | |
|-----------------|-----------------|-----------------|-----------------|
| 17) K $(-8,+7)$ | 19) N $(-3,-3)$ | 21) C $(+7,-2)$ | 23) G $(-5,+4)$ |
| 18) A $(-2,+1)$ | 20) I $(-3,-9)$ | 22) Y $(+4,+6)$ | 24) V $(-7,+9)$ |

Review your learning:

What have you learnt today?

What do you need more help or practice with?

What are you most confident about?

What are you least confident about?