

## Summer 2- Wk 3    Maths Answer Sheet

### **Lesson 1- 15.6.20**

Q1: The angle is obtuse because you can see that it is greater than a right angle (2 marks if explanation given; 1 mark for correct answer only)

Q2: 90 degrees and 180 degrees (2 marks)

Q3: 233 degrees (2 marks)

Q4: 135 degrees (  $90 + 45$ ) If right angle recognised 1 mark only, full answer with working out (2 marks)

Q5: 6 faces, 12 edges and 8 vertices (3 marks in total, 1 for each correct answer)

Q6: Triangle is regular (1), rectangle is irregular (1) and parallelogram is irregular (1) 3 marks in total

Q7: NE/NW and W/NW/N (2 marks)

Q8:  $a = 138$  degrees       $b = 64$  degrees ( 2 marks per question, total 4 marks)

Total for paper = 20 marks.

### **Lesson 2- 16.6.20**

Challenge 1:

1. Agree with Whitney, she has read the coordinates in the correct order (x axis first) Jack is wrong he has read the y axis coordinate first.
2. (2,9)

Challenge 2:

1. A (2,7)      B (6,8)      C (9,10)      D (0,5)      E (5,5)      F (9,4)  
H (10,1)
2. (0,24), (0,28), (28,28) (28,24)
3. False. You always plot the x axis first (along the hall and up the stairs)

Challenge 3:

1. L (3,4)      M (8, 9)      N (9,3)
2. Mo is correct. Alex has made the mistake of reading the y axis first.
3. Ron is correct because the scale is 2 (the numbers go up in twos). Annie thought the scale was 1.

### **Lesson 3- 17.6.20**

Challenge 1:

1. The third shape is not reflected correctly, it has been moved one square too far down.
2. Check drawings for accuracy
3. Millie is correct. The shape will not change.

Challenge 2:

1. Dice reflection will see the spots diagonal top right to bottom left.
2. Only the faces are reflected correctly.
3. The L shape has turned around.

Challenge 3:

1. Its dimensions never change because a reflection means it is the same shape just reflected in a mirror line.
2. The purple shape has been turned upside down.
3. Correct, this three sided shape will look like a six sided shape when reflected.

#### Lesson 4- 18.6.20

Challenge 1:

1. Before reflection: A (3,10) B (1,6) C (5,6)      After: A (3,0) B (1,4) C (5,4)
- 2.

	Original Coordinate	Reflected Coordinate
Blue	(1,8)	(9,8)
Orange	(4,8)	(6,8)
Green	(1,3)	(9,3)
Yellow	(4,3)	(6,3)

Challenge 2:

1. (9,4) has not been plotted, but (0,8) has been plotted incorrectly as (8,0)
2. No Eva has plotted the first two coordinates correctly, but (2,9) is not correct it should be (5,9)
3. No, they will form a trapezium.

Challenge 3:

1. Before reflection: A (3,9) B (7,9) C (3,7) D (7,7) After: A (3,3) B (7,3) C (3,5) D (7,5)
2. Yes Ranjit is correct, the coordinates have to be in a different part of the grid, which will give them changed coordinates.
3. Yes you can count the squares on the grid without drawing them out.