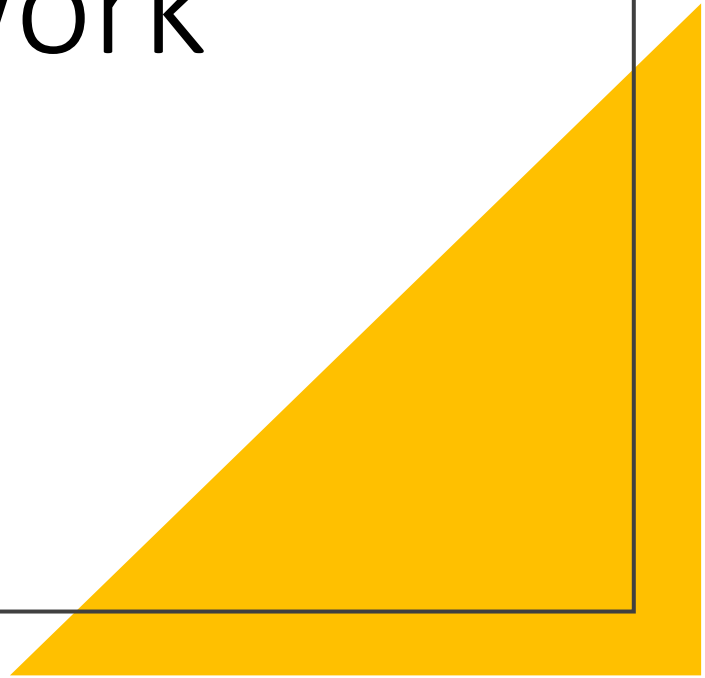# 17/05/23

Year 5/6 Math Homework
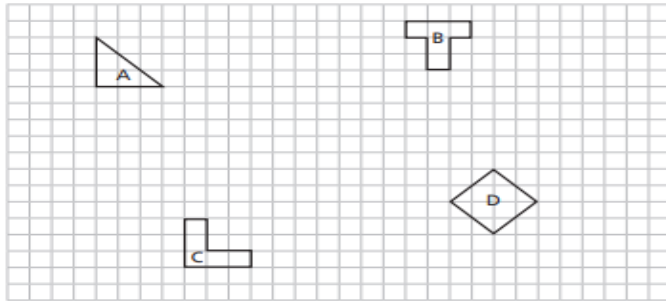
● Year 5

1 Draw a square on squared paper.

   a) Translate the shape 4 squares to the right.

   b) Translate the shape 2 squares up.

   c) Translate the shape 4 squares right, 2 squares up.

   d) Translate the shape 3 squares left, 5 squares down.
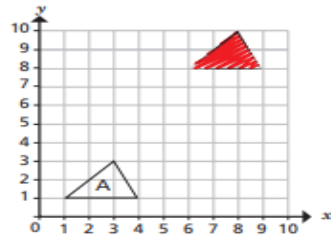
2 Four shapes have been drawn on a grid.

   a) Translate shape A 5 squares to the right and 3 squares down.

   b) Translate shape B 4 squares to the left and 7 squares down.

   c) Translate shape C 6 squares to the left.

   d) Translate shape D 4 squares to the right and 8 squares up.
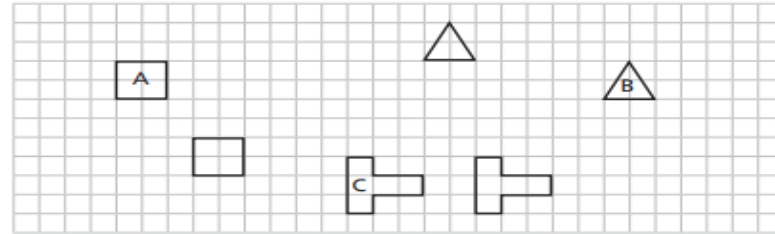
3 Dora has translated triangle A 2 squares to the right and 7 squares up.
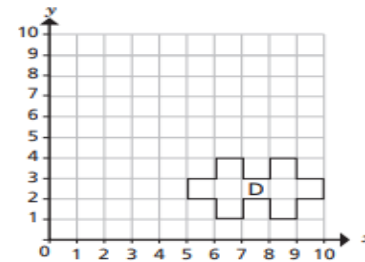

   Is Dora's drawing correct? Explain why.

4 Shapes A, B and C have been translated. Describe the translations.

5 A shape has been drawn on a coordinate grid.

   a) Translate shape D 4 squares to the left and 6 squares up. Label the new shape E.

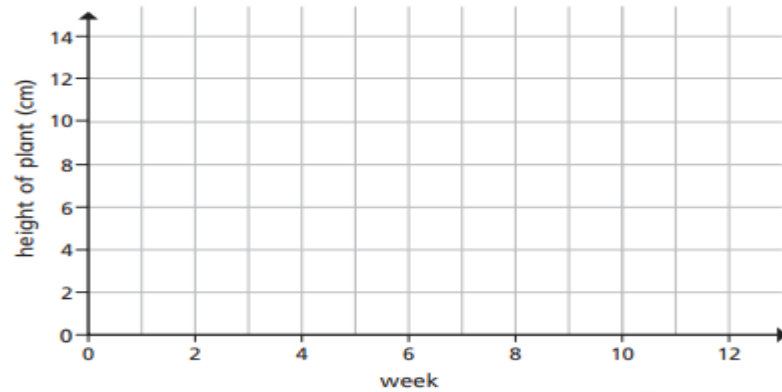   **b)** Describe the translation from shape E to shape D.

   What do you notice? Does this always happen?

Year 6

1 The table shows the height of a plant recorded over a number of weeks.

Week	2	4	6	8	10	12
Height of plant (cm)	2	3	4	7	12	14

a) Complete the line graph to show the height of the plant over time.

b) Do you agree with Whitney?

Explain your answer.

> In week 7, the plant was approximately 5 cm tall.

2 The table shows the amount of water in 2 tanks during a day.

Time	Water in tank 1 (litres)	Water in tank 2 (litres)
6:00 pm	3,000	2,500
9:00 pm	3,500	3,100
midnight	4,250	4,000
3:00 am	5,500	5,100

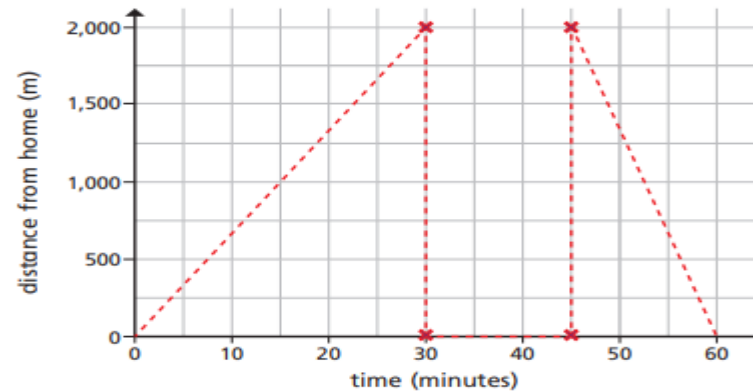| Time	Water in tank 1 (litres)	Water in tank 2 (litres)
6:00 am	6,000	5,800
9:00 am	2,000	3,100
noon	2,250	2,500
3:00 pm	2,750	2,900

Draw a line graph to represent the information.

3 Amir goes for a walk.

He walks for half an hour before stopping to rest for 15 minutes.

Then he jogs 2 km back to his house.

He draws a line graph showing his journey.

a) Explain one mistake that Amir has made.

b) Draw the correct line graph to represent Amir's journey.

Discuss your line graph with a partner.

How are they the same? How are they different?