Date of assignment: 16.07.2020
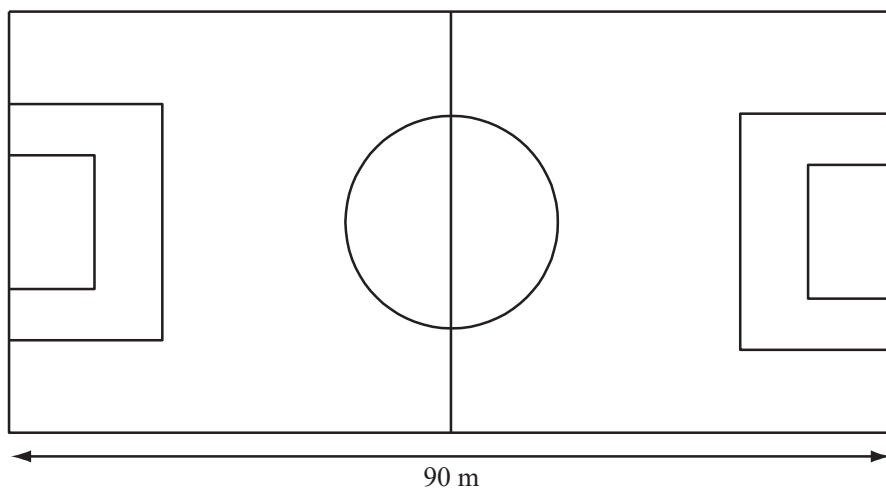Submission date: 23.07.2020

Task 1:

1.

NOT TO
SCALE

A model of a car has a scale of 1:25.
The model is 18 cm long.
Calculate, in metres, the actual length of the car.

2.

NOT TO
SCALE

90 m

The diagram shows the plan for a new soccer field.
The length of the pitch is 90 metres.
The ratio length : width is 5 : 3.
Calculate the width of the pitch.

3.The distance between the centres of two villages is 8 km. A map on which they are shown has a scale of 1 : 50 000.Calculate the distance between the centres of the two villages on the map. Give your answer in centimetres.

4. At a pro tournament involving 60 golfers, the ratio of professionals to amateurs is 5:7.How many amateurs are playing in the tournament?

5. An alloy is made from tin, zinc and lead in the ratio 15:4:1.How much tin is required to make 5 tonnes of the alloy

6. Pedro makes drinks for his soccer teammates by mixing cordial and water in the ratio 2:9.If he has 0.4 litres of cordial,how much water should be added ?

Task-2- complete the code breaker activity

Video for help: https://www.youtube.com/watch?v=09IOHCf9jUE

Find the answer by calculating the percentages below ,then replace the number in the code with the corresponding letters

What is a top tip for keeping happy?

A	10% of 20 = ...	H	20% of 60 = ...	S	25% of 40 = ...
B	50% of 12 = ...	I	1% of 300 = ...	T	20% of 20 = ...
D	10% of 50 = ...	L	75% of 20 = ...	U	25% of 44 = ...
E	5% of 180 = ...	O	10% of 130 =............	W	20% of 70 = ...
F	5% of 320 = ...	R	5% of 160 = ...	Y	1% of 700 = ...

4 8 9 2 4   13 4 12 9 8 10   2 10

7 13 11   14 3 10 12   4 13   6 9

4 8 9 2 4 9 5   7 13 11 8 10 9 15 16