

Revision Sheet |

Lower Secondary
Stage (6-8)

1st Semester | 2023-2024

Subject: Math

Chapter: 1 and 2 (2.1-2.2)

Objectives:

- To review the material covered in chapter 1 and 2 (2.1-2.2)

Q1: Last season, Hodder Hurricanes won $\frac{5}{12}$ of its matches, drew $\frac{2}{9}$ and lost the rest.
Show that it lost $\frac{13}{36}$ of its matches.

Q2: Of the teachers in a school, $\frac{3}{4}$ are women.
Of the women teachers in the school, $\frac{5}{6}$ are married.
Work out the fraction of teachers in the school who are married women.
Give your fraction in its simplest form.

Q3: Pat's dog eats $\frac{2}{3}$ of a tin of food each day.
She has 8 tins of dog food.
How many days will the 8 tins last?

Q4: Express 63 as a percentage of 350

Q5: An art dealer bought a painting for £2500 and sold it for £3300
Work out her percentage profit.

Q6: The population of Malta is 4×10^5
The population of the United Kingdom is 6×10^7
Find the ratio of the population of Malta to the population of the United Kingdom.
Give your ratio in the form $1 : n$

Q7: The length of an aeroplane is 7.5 m.
A scale model is made of the aeroplane.
The length of the scale model is 30 cm.
a) Express the scale of the model in the form $1 : n$
The wingspan of the scale model is 36 cm.
b) Work out the wingspan of the real aeroplane.
Give your answer in metres.

Q8: A total of 64 320 people watched the football match between United and City.
The ratio of United supporters to City supporters was 15 : 1
Work out the number of United supporters who watched the match.

Q9: John and Pavinder share some money in the ratio 5 : 7
John receives \$240
Work out the amount of money that Pavinder receives.

Q10: Brass is made from copper and zinc in the ratio 13 : 7 by weight.
a) Work out the weight of copper and the weight of zinc in 5 kg of brass.
A brass ornament contains 350 grams of zinc.
b) Work out the weight of copper in the ornament.

Q11: The scale of a map is 1 : 5 000 000
On the map, the distance between two airports is 3.6 cm.
a) Work out the real distance between the airports.
Give your answer in kilometres.
The real distance between two railway stations is 30 km.
b) Work out the distance on the map between the two railway stations.

Q12: Here are the ingredients needed to make a pie for 4 people.

Ingredients for 4 people

150 g of pastry

450 g of potatoes

220 g of onions

320 g of bacon

Work out the amount of each ingredient needed to make a pie for 10 people.

Q13: Kurt went on holiday to England.

He changed €1800 to pounds.

The exchange rate was €1 = £0.69

a) Work out the number of pounds Kurt received.

Kurt returned home with £198

He changed his £198 to euros.

The new exchange rate was €1 = £0.66

b) Work out the number of euros Kurt received.