# 2.6 Data Representation

# Lesson 3 - Images

Green – Easier challenges

Orange – Medium challenges

Red – Hard/Extension challenges

1. Calculate the bitmap files sizes (Bytes) with the following properties:
   1. Width= 32, Height=64, Colour Depth=32
   2. Width= 16, Height=32, Colour Depth=256
   3. Width= 1024, Height=1024, Colour Depth=32
2. Metadata

Often extra data is stored with a picture.

Identify what data is stored and how that can be useful. Link this into how your mobile phone recognises where you have been by the metadata in pictures.

Create a poster showing the types of metadata stored with pictures and what it is used for.

What other industries may find meta data useful?

1. Pictures in Binary

* Create a pixel image in black and white and the binary representation to match
* Create a pixel image in 4 colours and the binary representation to match
* Create a pixel image in 16 colours and the binary representation to match

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