Fractions in Context

This worksheet will use all knowledge of N5 Fractions in a variety of contexts.

*All questions are **Non-Calculator**.*

1. Harrison spent $\frac{1}{3}$ of his wage on rent and $\frac{2}{7}$ on food.
   His wage was £1197.
   (a) How much did he spend each on rent and food?
   (b) How much did he have left over?
   (c) What fraction of his wage did he have left over?

2. Jonah, David and Mary share a pizza.
   Jonah eats $\frac{1}{4}$, David eats $\frac{2}{5}$.
   (a) What fraction did Jonah and David eat together?
   (b) How much is left for Mary?

3. A length of material is $\frac{5}{7}$ m long. How many lengths would be needed for a project that required $6\frac{1}{2}$ m of the material?

4. The circumference of a circular table is $305\frac{1}{4}$ cm. A decorative border is to be placed around the edge of twelve of these tables.
   If there is 36m of material, is this enough to cover all twelve tables?

5. A piece of string was $\frac{4}{7}$ m long. A length of string $\frac{3}{5}$ m was cut off.
   What length of string is left?

6. Evan has £150 and his brother Sam has £120.
   Evan spends $\frac{1}{4}$ of his money and Sam spends $\frac{1}{6}$ of his.
   Who has more money now?

7. A guitar is on sale with $\frac{2}{5}$ discounted from the price.

   Erin then haggles and gets another $\frac{1}{8}$ knocked off the original price.

   (a) What fraction did Erin end up saving?
   (b) If the guitar cost £880 to start. How much would Erin pay?

8. Tom has a budget to spend for his company.
   He spends $\frac{1}{3}$ of his budget on staff, $\frac{2}{5}$ on equipment.
   The rest is used for petty cash.
   What fraction is left for petty cash?

9. Robyn has 3000MB of data for her mobile allowance.
   She uses $\frac{2}{5}$ of her allowance in 5 days.

   The remaining allowance must last 25 more days.
   (a) How many MB of data does she have left after 5 days?
   (b) She uses another $\frac{1}{3}$ of her data in the next 5 days.

      How much data does she have left over for the last 20 days?
   (c) What fraction of data has she used altogether after 10 days?
   (d) What fraction does she have left?

10. The length of a rectangle is $2\frac{1}{4}$ m and the breadth is $3\frac{2}{3}$ m.
    (a) What is the perimeter of the rectangle?
    (b) What is the area of the rectangle?

$3\frac{2}{3}$ m

$2\frac{1}{4}$ m