

Maths Investigations – Week 6

Equivalent Fractions

These investigations are to help you develop your problem-solving skills and your reasoning skills, you can do as many as you like. Please make sure you show your workings out, use jottings and anything else you might need to

Investigation 1

Use your knowledge of equivalent fractions to group the fractions below and find the odd one out.

$$\frac{2}{10}$$

$$\frac{3}{20}$$

$$\frac{1}{5}$$

Explain the reasons for your groupings.

Investigation 2

Using the digit cards below, create three equivalent fractions.

$$\frac{\square}{\square}$$
$$\frac{\square}{\square}$$
$$\frac{\square}{\square}$$

6

20

15

12

9

8

10



Investigation 3

Phoebe is looking at the fractions below.

$$\frac{9}{12} = \frac{15}{20} = \frac{21}{28}$$

The fractions are all equal
because they are
equivalent to $\frac{6}{8}$.



Phoebe

Phoebe says all three fractions are equal because they are equivalent to $\frac{6}{8}$.

Is she correct? Convince me.