

Discussion Problems

Step 5: Compare and Order Fractions Less than 1

National Curriculum Objectives:

Mathematics Year 5: (5F3) [Compare and order fractions whose denominators are all multiples of the same number](#)

About this resource:

This resource has been designed for pupils who understand the concepts within [this step](#). It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More [Year 5 Fractions](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Compare and Order Fractions Less than 1

1. Ron the delivery driver is stacking the boxes in his van ready for delivery. He must stack the boxes in order with the heaviest at the bottom and the lightest on the top.



Box A
My denominator is odd but my numerator is even. I am $>$ three quarters.



Box B
My numerator is a prime number. My denominator is a multiple of 4.



Box C
The sum of my numerator and denominator is 25.



Box D
My denominator is a square number. My numerator is odd.

Investigate ways Ron could order and stack the boxes.

DP

2. Using the digit cards, investigate ways to complete the statement below.

$$\frac{3}{\boxed{}} < \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{12}$$



DP

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The sum of my numerator and denominator is 25.



Box D
My denominator is a square number. My numerator is odd.

Investigate ways Ron could order and stack the boxes.

Various answers, for example: Box A. $\frac{4}{5}$; Box B. $\frac{7}{8}$; Box C. $\frac{5}{20}$; Box D. $\frac{3}{4}$

Ron would have to stack the boxes in the following order (top to bottom): C, D, A, B.

DP

2. Using the digit cards, investigate ways to complete the statement below.

Various answers, for example:

$$\frac{3}{5} < \frac{6}{8} = \frac{9}{12}$$



DP