Guide to: Ordering FDP

maths Links

Explanation:

To put decimals in order of size, write them underneath each other with the decimal points lined up and pad the end of shorter decimals with placeholder zeros so every number has the same length. Compare digits from left to right.

To order a mixture of fractions, decimals, and percentages (FDP), convert every number into the same format first (either all decimals with 2 d.p. or all percentages). Always write your final answer using the **original numbers** given in the question.

Example 1: Write in order from smallest to largest:
0.45, 0.405, 0.4, 0.5, 0.048

Solution:

Give every number **3 decimal places**:
0.450, 0.405, 0.400, 0.500, 0.048
Order the thousandths: 048 < 400 < 405 < 450 < 500
Write in original form:

Answer: 0.048, 0.4, 0.405, 0.45, 0.5

Example 2: Write in ascending order (smallest first):
$\frac{3}{5}$, **58%**, **0.62**, $\frac{11}{20}$

Solution:

Convert each value to a percentage (or decimal):
• $\frac{3}{5} = \frac{60}{100}$ = **60%** • **58%** = 58%
• 0.62 = **62%** • $\frac{11}{20} = \frac{55}{100}$ = **55%**
Order: 55% < 58% < 60% < 62%

Answer: $\frac{11}{20}$, 58%, $\frac{3}{5}$, 0.62

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