

11.03.24

Number Nest Weekly Challenge



Warm up

Order the following fractions in ascending order.

(a) $\frac{7}{15}$ $\frac{6}{15}$ $\frac{11}{15}$ $\frac{8}{15}$

b) $\frac{29}{40}$ $\frac{19}{40}$ $\frac{23}{40}$ $\frac{27}{40}$

c) $\frac{2}{5}$ $\frac{3}{10}$ $\frac{1}{4}$ $\frac{7}{20}$

d) $\frac{5}{18}$ $\frac{4}{9}$ $\frac{1}{2}$ $\frac{2}{3}$

Activity

1. Rosie can get to the library by bus or by walking. If she walks to the library and takes the bus home, it takes her an hour. If she takes the bus there and back, then her total journey time is half an hour. How long would it take her to walk to the library and back?
2. Will and Maryam are playing a game of tennis. If Will loses this game, he will have won the same number of games as Maryam. If Will wins the game, he will have won twice as many games as Maryam. How many games had each of them won before they started this game?
3. When the Weasley family waved goodbye to Harry Potter, they walked home in single file. Bill was as many places in front of Charlie as Percy was behind Ron. Charlie and Fred were in even numbered places and Percy was in an odd numbered place. George was behind Percy and Ron was behind Charlie, but there is no information about Ginny's place. In what order did the Weasleys walk home? Explain your reasoning.

Hint: Bill is at the front of the line!

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Puzzle

How many dots are missing from the domino with the question mark to complete this pattern?

