Comparing fractions I

Mathematics
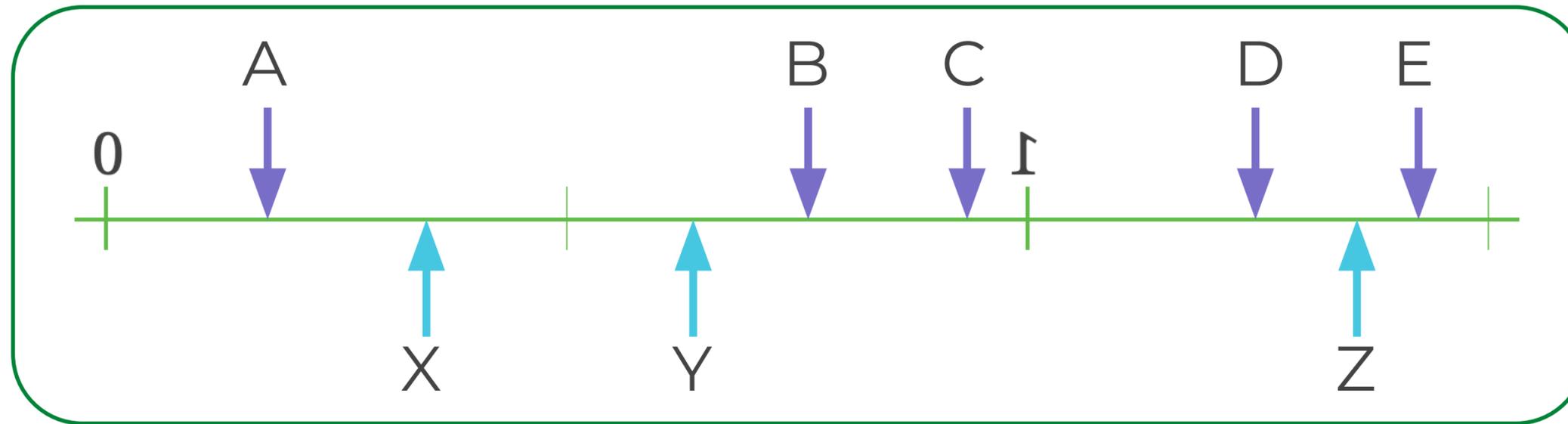
Mr Coward

Try this

Match the fractions to points A-E on the number line.

$$\frac{9}{10} \qquad \frac{5}{4} \qquad \frac{1}{6} \qquad \frac{7}{5} \qquad \frac{3}{4}$$

Suggest possible values for points X-Z.

Independent Task

Start in the blue square. You can only move ← → ↑ ↓ to squares that have a **lower** value (no diagonal moves).

How many paths can you find to reach the purple square?

How many squares are impossible to visit?

$1\frac{4}{5}$	$\frac{8}{5}$	$1\frac{1}{2}$	$\frac{4}{3}$	$\frac{5}{4}$
$\frac{3}{2}$	$\frac{17}{8}$	$1\frac{1}{12}$	$\frac{5}{3}$	1
$1\frac{1}{4}$	$\frac{9}{8}$	$\frac{5}{6}$	1	$\frac{2}{3}$
$\frac{7}{8}$	$\frac{8}{7}$	$\frac{1}{2}$	$\frac{1}{5}$	$\frac{1}{4}$
$\frac{3}{4}$	$\frac{2}{3}$	$\frac{1}{3}$	$\frac{1}{6}$	$\frac{1}{8}$

Explore

Find a way of convincing your partner / the class which fraction is...

... closest to 1

$$\frac{7}{9} \text{ or } \frac{12}{9}$$

$$\frac{5}{4} \text{ or } \frac{2}{3}$$

$$\frac{1}{10} \text{ or } \frac{3}{20}$$

$$\frac{5}{7} \text{ or } \frac{7}{9}$$

... closest to $\frac{1}{2}$

$$\frac{2}{5} \text{ or } \frac{4}{5}$$

$$\frac{2}{3} \text{ or } \frac{3}{8}$$

$$\frac{1}{7} \text{ or } \frac{8}{9}$$

$$\frac{5}{9} \text{ or } \frac{6}{10}$$