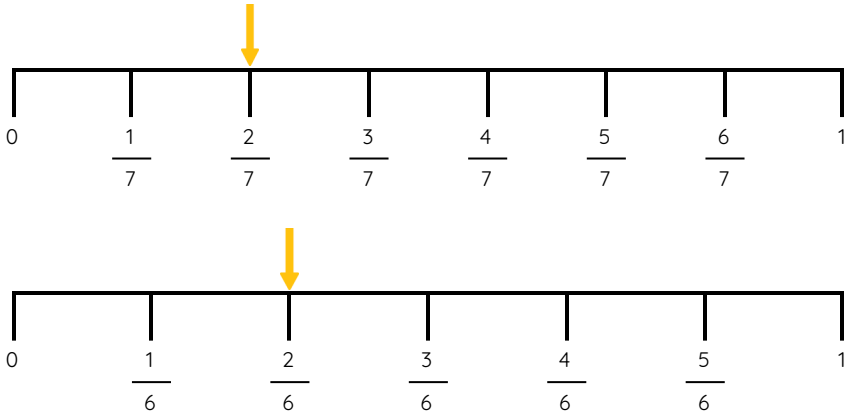
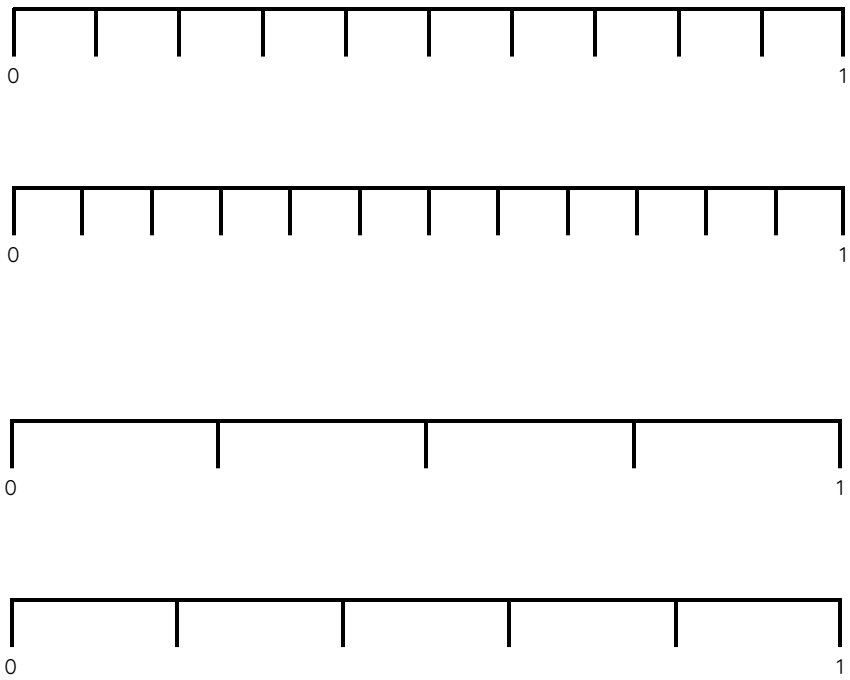
YR6 Master Comparing and Ordering Fractions by Numerator

Fluency 1

Look at the number lines and complete the stem sentence.



When the numerators are the same, the _____ the denominator, the _____ the fraction.



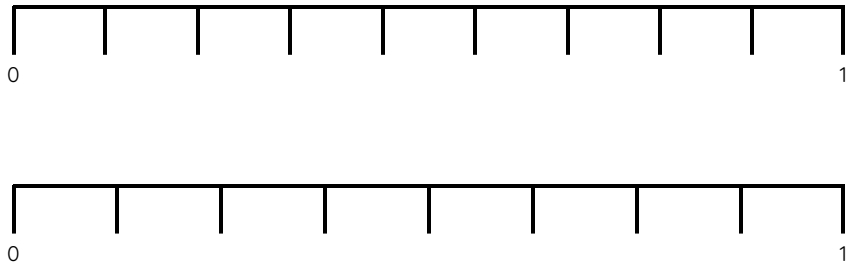
Fluency 2

Use the number lines and the given common numerator to compare each pair of fractions.

$\frac{4}{10} \bigcirc \frac{2}{6}$ common numerator: 4

$\frac{3}{4} \bigcirc \frac{9}{15}$ common numerator: 3

$\frac{2}{3} \bigcirc \frac{6}{8}$ common numerator: 6



Fluency Tasks

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Fluency 3

Compare each pair of fractions by finding a common numerator.

$\frac{4}{9}$ ○ $\frac{12}{22}$ $\quad$ $\frac{2}{10}$ ○ $\frac{6}{30}$ $\quad$ $\frac{5}{6}$ ○ $\frac{15}{19}$

$1\frac{7}{11}$ ○ $1\frac{21}{24}$ $\quad$ $2\frac{32}{35}$ ○ $2\frac{8}{9}$

Fluency 4

Place each set of fractions in ascending order.

$\frac{2}{9}$ $\quad$ $\frac{8}{20}$ $\quad$ $\frac{4}{14}$

smallest ☐ ☐ ☐ greatest

$\frac{6}{16}$ $\quad$ $\frac{3}{10}$ $\quad$ $\frac{18}{24}$ $\quad$ $\frac{12}{20}$

$2\frac{15}{18}$ $\quad$ $2\frac{5}{8}$ $\quad$ $2\frac{20}{28}$

Fluency 5

Place each set of fractions in descending order.

$\frac{3}{8}$ $\quad$ $\frac{12}{20}$ $\quad$ $\frac{4}{15}$ $\quad$ $\frac{6}{14}$

greatest ☐ ☐ ☐ ☐ smallest

$\frac{16}{28}$ $\quad$ $\frac{4}{5}$ $\quad$ $\frac{8}{18}$

$1\frac{7}{10}$ $\quad$ $1\frac{2}{3}$ $\quad$ $1\frac{4}{7}$ $\quad$ $1\frac{28}{30}$

Fluency 6

Fill in the missing digits to make the comparing and ordering correct.

$\frac{6}{18} < \frac{3}{\square}$ $\quad$ $\frac{8}{22} < \frac{16}{\square}$

smallest $\frac{12}{33}$ $\quad$ $\frac{4}{7}$ $\quad$ $\frac{24}{36}$ $\quad$ $\frac{8}{\square}$ greatest

Fluency Tasks

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Reasoning 1

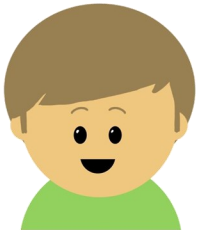
Is Asha correct?

2/3 is less than 4/5

Prove it using the number lines.

Reasoning 2

Do you agree with Jerry?



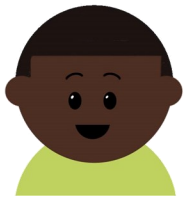
Finding a common denominator is the simplest way to compare these fractions.

$\frac{2}{5} \bigcirc \frac{6}{13}$

Why or why not?

Reasoning 3

Caleb thinks he has ordered these fractions in ascending order.

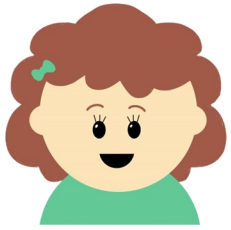


$\frac{18}{24}$ $\frac{9}{10}$ $\frac{27}{33}$

Explain the mistake he has made.

Reasoning 4

Darcey has ordered these fractions in descending order. She thinks there is only 1 possible denominator that could be used to fill the gap. Is she correct?



$1\frac{8}{9}$ $1\frac{16}{20}$ $1\frac{2}{?}$ $1\frac{4}{7}$

Explain your reasoning.

Reasoning Tasks