

- 1) Can you represent $\frac{6}{8}$ as a fraction in a variety of ways? Use equivalences on number lines, bar models and number shapes as part of your answer.



2) $\frac{7}{12}$



Jacob

There is no way of creating an equivalent fraction with an odd denominator for $\frac{7}{12}$.

Is Jacob correct? Prove your answer with reasoning.

- 3) A blank number line is shown.

- a) Use the clues to work out where each shape should go on the number line.



I am equivalent to $\frac{5}{5}$.



My numerator is 8.



My numerator is 6.



I am equivalent to $\frac{2}{5}$.

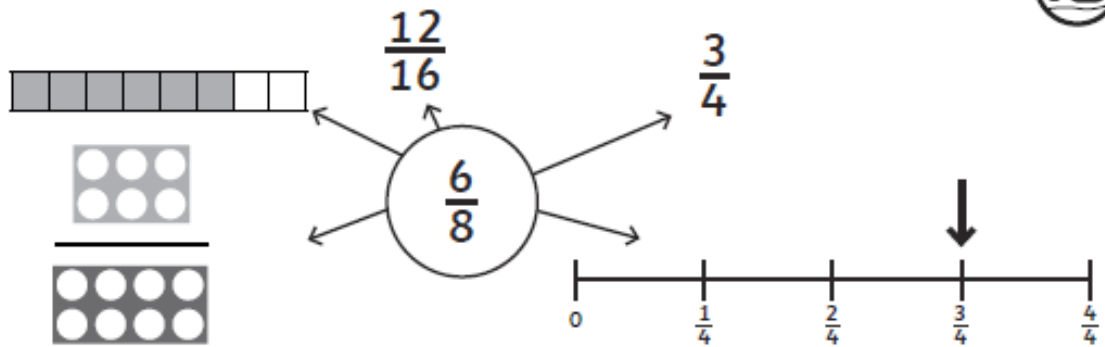
- b) This shape doesn't have a clue.



Write a clue for it so that it'll go in the empty space on the number line.

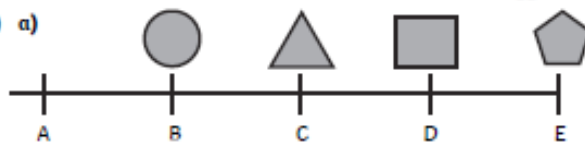
Answers:

1) There are many possible answers. Answers may include:



2) Jacob is correct. The only equivalent fractions to $\frac{7}{12}$ have even denominators.

3) a)



 I am equivalent to $\frac{2}{5}$. $\frac{4}{10}$ (equivalent to $\frac{2}{5}$)

 My numerator is 6. $\frac{6}{10}$ (equivalent to $\frac{3}{5}$)

 My numerator is 8. $\frac{8}{10}$ (equivalent to $\frac{4}{5}$)

 I am equivalent to $\frac{5}{5}$. $\frac{10}{10}$ (equivalent to $\frac{5}{5}$ or one whole)

b) Answers will vary.

Example: I am equivalent to $\frac{1}{5}$.