

## Deepening Understanding

### Y3: Comparing and Ordering Fractions

#### Greater Than or Less Than?

Use the symbols  $<$  or  $>$  to compare the following fractions.

$$\frac{1}{4} \quad \square \quad \frac{1}{8}$$

$$\frac{1}{3} \quad \square \quad \frac{1}{4}$$

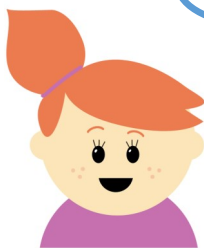
$$\frac{4}{9} \quad \square \quad \frac{6}{9}$$

$$\frac{2}{12} \quad \square \quad \frac{4}{12}$$

One fifth is greater than one quarter because 5 is greater than 4.

Is Millie correct or incorrect?

Convince her.



$$\frac{1}{5} \quad \square \quad \frac{1}{4}$$

$$\frac{1}{3} \quad \square \quad \frac{?}{?} \quad \square \quad \frac{1}{8}$$



Jerry has created a challenge for Marlon. Can you help Marlon find a fraction which would fit the expression above?



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### Y3: Comparing and Ordering Fractions (Answers)

#### Greater Than or Less Than?

Use the symbols  $<$  or  $>$  to compare the following fractions.

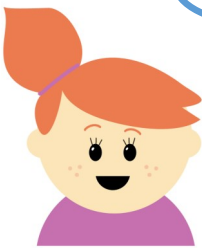
$$\frac{1}{4} > \frac{1}{8}$$

$$\frac{1}{3} > \frac{1}{4}$$

$$\frac{4}{9} < \frac{6}{9}$$

$$\frac{2}{12} < \frac{4}{12}$$

One fifth is greater than one quarter because 5 is greater than 4.



$$\frac{1}{5} > \frac{1}{4}$$

Millie is incorrect. One fifth is smaller than one quarter.

Children may give different examples to explain:

Example—if a pizza was split into five pieces, the pieces would be smaller than if it were split into four pieces.

Example—one fifth of 20 is 4 but one quarter is 5 so one quarter is bigger.

$$\frac{1}{3} < \frac{?}{?} < \frac{1}{8}$$



Children should realise that this is impossible. Jerry has unfortunately muddled up his less than/greater than symbols. There is no fraction smaller than  $\frac{1}{8}$  that is greater than  $\frac{1}{3}$ .

