

## Improper Fractions to Mixed Numbers

1. Explore the values of the square, the circle and the triangle.

$$\frac{41}{\square} = \text{circle} + \frac{\triangle}{\square}$$

$$\frac{44}{\triangle} = \square + \frac{2}{\triangle}$$

$$\frac{36}{\square} = \text{circle} + \frac{1}{\square}$$

$$\frac{\triangle + \square}{\triangle} = 11 + \frac{1}{\triangle}$$

DP

2. Jack is thinking of an improper fraction. He gives you some clues to help you to work out what it could be. He then converts it to a mixed number.

My denominator is less than 10 but greater than 5.

The digit sum of my numerator is even.

My numerator is an odd number.

My denominator is a multiple of 3.

Investigate the possible mixed numbers he could have.

DP

## Improper Fractions to Mixed Numbers

1. Explore the values of the square, the circle and the triangle.

$$\frac{41}{\boxed{7}} = 5 \frac{\triangle 6}{\boxed{7}}$$

$$\frac{44}{\triangle 6} = \boxed{7} \frac{2}{\triangle 6}$$

$$\frac{36}{\boxed{7}} = 5 \frac{1}{\boxed{7}}$$

$$\frac{\triangle 6 \boxed{7}}{\triangle 6} = 11 \frac{1}{\triangle 6}$$

Square = 7, circle = 5, triangle = 6

DP

2. Jack is thinking of an improper fraction. He gives you some clues to help you to work out what it could be. He then converts it to a mixed number.

My denominator is less than 10 but greater than 5.

The digit sum of my numerator is even.

My numerator is an odd number.

My denominator is a multiple of 3.

Investigate the possible mixed numbers he could have.

Various answers, for example  $\frac{71}{6} = 11 \frac{5}{6}$ .

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