Division with remainders Worksheet
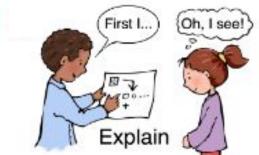
Mr Ward

Warm up - Can you spot the errors?

⚠️

$$\begin{array}{r} 8\ 1 \\ 4\overline{)3\ ^3 4\ 4} \end{array}$$

$$344 \div 4 = 81$$

$$\begin{array}{r} 1\ 6\ 1 \\ 5\overline{)8\ ^3 0\ 1} \end{array}$$

$$801 \div 5 = 161$$

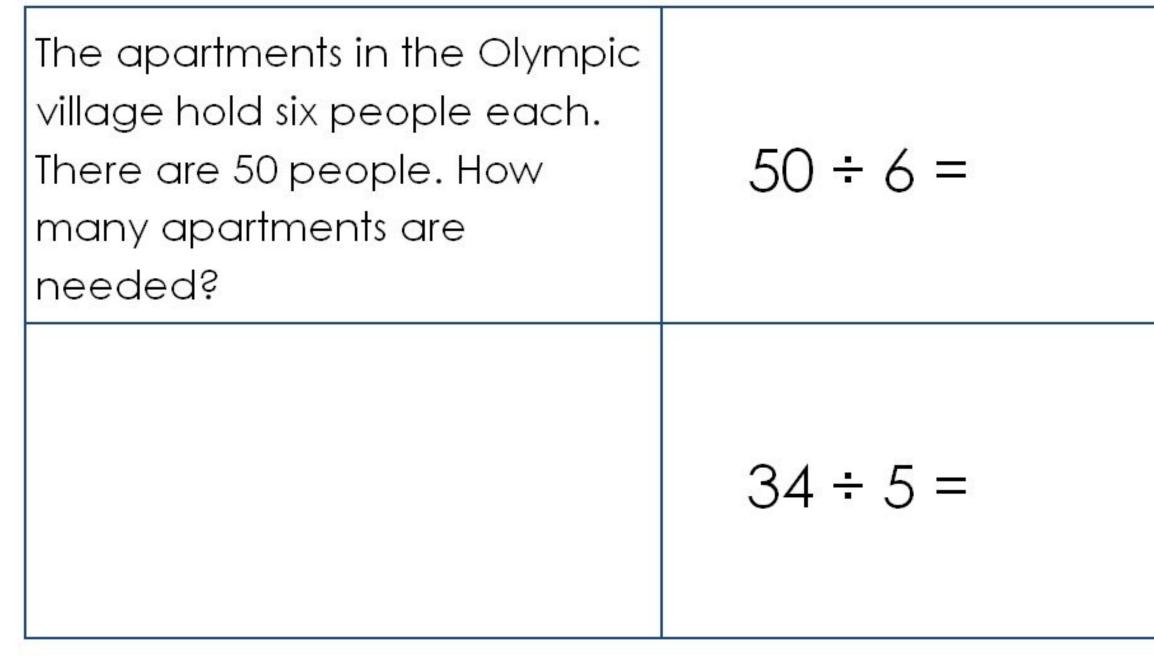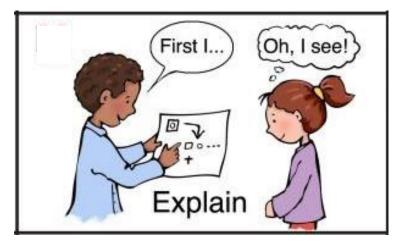# Talk Task - Division with remainders

1. Write two problems for both questions which requires the same calculation but will interpret the remainders differently. The first one has been done for you.
2. Solve the equations.

The apartments in the Olympic village hold six people each. There are 50 people. How many apartments are needed?	$50 \div 6 =$	
	$34 \div 5 =$	

Interpreting remainders using short division

1. Solve the word problems, interpreting remainders correctly.
2. Write a word problem for the 3 calculations presented and solve.
3. Estimate before each question and use short division.

Solve these problems, interpreting remainders correctly	Solve these calculations and then write a Maths story for each
The apartments in the Olympic village hold six people each. There are 1352 people. How many apartments are needed?	$4361 \div 5 =$
950 Olympic medals are packed into boxes of nine. How many full boxes will there be?	$1562 \div 7 =$
An arena has rows with 12 seats in each. 650 spectators fill the seats in full rows from the front. How many rows will have people in them?	$746 \div 8 =$

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Challenge Slide

How many different strategies can you use to solve the problem below?

Be flexible and consider demonstrating both mental and formal methods.

An arena has rows with 12 seats in each.
649 spectators fill the seats in full rows from the front.

How many full rows of people are there?

How many rows are there with people sat in it?

Use bar models and area models to help represent your reasoning