

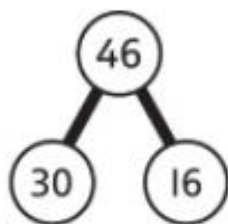
# Dividing a 2-digit number by a 1-digit number 3

1 Lee has 3 guinea pigs.

He shares 46 dried peas between the guinea pigs.

How many peas does each guinea pig get?

How many are left over?



$$30 \div 3 = \square$$

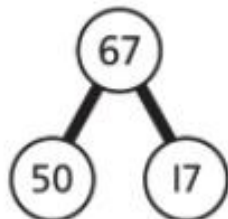
$$16 \div 3 = \square \text{ r } \square$$

$$\text{So, } 46 \div 3 = \square \text{ r } \square$$

Each guinea pig gets  peas and there are  peas left over.

2 Use the part-whole models to work out the following.

a)  $67 \div 5$

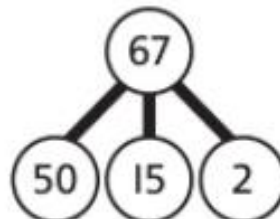


$$50 \div 5 = \square$$

$$17 \div 5 = \square \text{ r } \square$$

$$\text{So, } 67 \div 5 = \square \text{ r } \square$$

b)  $67 \div 5$



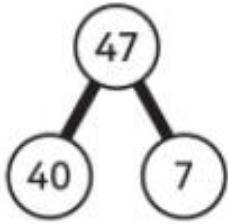
$$50 \div 5 = \square$$

$$15 \div 5 = \square$$

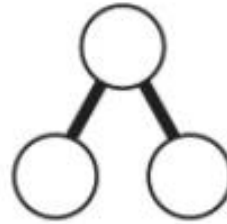
$$\text{So, } 67 \div 5 = \square \text{ r } \square$$

**3** Partition each number to help you to work out the division.

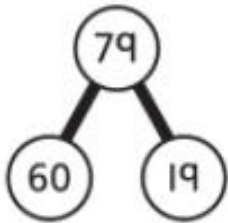
a)  $47 \div 2 = \square r \square$



c)  $50 \div 3 = \square r \square$



b)  $79 \div 6 = \square r \square$



d)  $72 \div 5 = \square r \square$



**4** Work out the following calculations.

a)  $67 \div 2 = \square r \square$

d)  $67 \div 5 = \square r \square$

b)  $67 \div 3 = \square r \square$

e)  $67 \div 6 = \square r \square$

c)  $67 \div 4 = \square r \square$



- 5 A bar of chocolate has 5 pieces.  
76 pieces of chocolate are needed to make a giant cake.

How many chocolate bars are needed?

chocolate bars are needed.



- 6 Danny is thinking of a number.

When you divide my number by 2 there is a remainder of 1.

When you divide my number by 3 there is no remainder.

When you divide my number by 5 there is a remainder of 1.



**CHALLENGE**

What could Danny's number be?  
Is there more than one possible answer?

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## Reflect

How do you know that there is a remainder for  $87 \div 4$  without working it out?

What is the greatest number the remainder could be?

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