

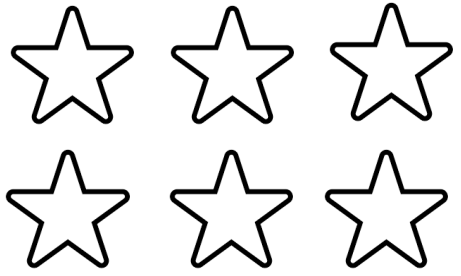
RECALL - HALVING



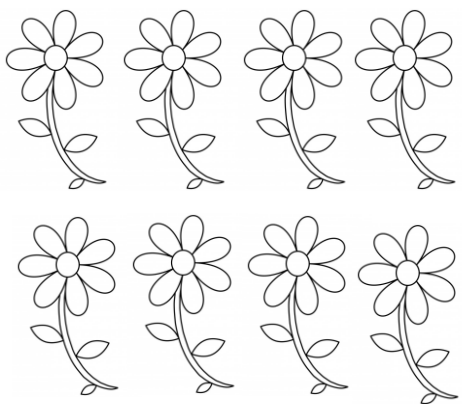
Half means to share into two groups.



There are 6 stars.
Colour in half.



There are 8 flowers.
Colour in half.



Half 4 is
 $4 \div 2 = \underline{\quad}$

Half 10 is
 $10 \div 2 = \underline{\quad}$

Half 12 is
 $12 \div 2 = \underline{\quad}$

Half 14 is
 $\underline{\quad} \div 2 = \underline{\quad}$

Half 16 is
 $\underline{\quad} \div 2 = \underline{\quad}$

Half these 2-digit numbers. Share the tens first and then the units.

24	

46	

68	

82	

"You can not half an odd number."

True or false?

Investigate.



RECALL - HALVING



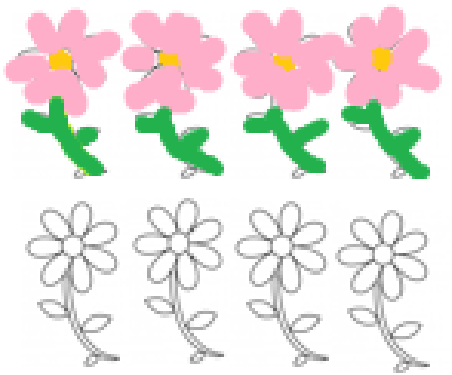
Half means to share into two groups.



There are 6 stars.
Colour in half.



There are 8 flowers.
Colour in half.



Half 4 is
 $4 \div 2 = 2$

Half 10 is
 $10 \div 2 = 5$

Half 12 is
 $12 \div 2 = 6$

Half 14 is
 $14 \div 2 = 7$

Half 16 is
 $16 \div 2 = 8$

Half these 2-digit numbers. Share the **tens** first and then the **units**.

24	
12	12

46	
23	23

68	
34	34

82	
41	41

"You can not half an odd number."
True or false?
Investigate.



**LO: I CAN DIVIDE A 2 DIGIT
NUMBER BY A 1 DIGIT NUMBER.**

Page

MODELLED EXAMPLE


There are 48 sheep that need to be shared equally between 2 farmers.



How many sheep does each farmer have?

$$48 \div 2 = \square$$

Half of 48 is _____

Act out the problems with equipment. 

Working it out - counters

First, make 48 on a place value mat. You will need 4 tens and 8 ones.

Hundreds	Tens	Ones
	10 10 10 10	1 1 1 1 1 1 1 1

Second, divide the 4 tens into 2 equal group. This will make two groups of 20.

Then, divide the 8 units into 2 equal groups. This will make 2 groups of 4.

Hundreds	Tens	Ones
	10 10	1 1 1 1 1 1 1 1

$$48 \div 2 = 24$$

Half of 48 is 24.

INTELLIGENT PRACTICE



Hundreds	Tens	Ones



Use the place value mat and counters to half these numbers.



$20 \div 2 = \square$

$22 \div 2 = \square$

$24 \div 2 = \square$

$26 \div 2 = \square$

$28 \div 2 = \square$



$40 \div 2 = \square$

$42 \div 2 = \square$

$46 \div 2 = \square$

$64 \div 2 = \square$

$68 \div 2 = \square$

$80 \div 2 = \square$

$86 \div 2 = \square$



You will need to exchange a ten counter for ten ones to solve these.

$18 \div 2 = \square$

$36 \div 2 = \square$

$52 \div 2 = \square$

$78 \div 2 = \square$

$90 \div 2 = \square$

Explain how you solved questions in Chilli 2 and 3.



INTELLIGENT PRACTICE



Hundreds	Tens	Ones



Use the place value mat and counters to half these numbers.



$$20 \div 2 = 10$$

$$22 \div 2 = 11$$

$$24 \div 2 = 12$$

$$26 \div 2 = 13$$

$$28 \div 2 = 14$$



$$40 \div 2 = 20$$

$$42 \div 2 = 21$$

$$46 \div 2 = 23$$

$$64 \div 2 = 32$$

$$68 \div 2 = 34$$

$$80 \div 2 = 40$$

$$86 \div 2 = 43$$



You will need to exchange a ten counter for ten ones to solve these.

$$18 \div 2 = 9$$

$$36 \div 2 = 18$$

$$52 \div 2 = 26$$

$$78 \div 2 = 39$$

$$90 \div 2 = 45$$


Explain how you solved questions in Chilli 2 and 3.



DIVE DEEPER

4


1 Peter and Tom have 26 sheep between them. They need to share them equally. How many do they get each?



Make **26** on your board and share into two. Draw it on your board.

Hundreds	Tens	Ones


2 Each pack of Fruit Pastilles has 28 sweets and I half them.



First I make 28 using ___ tens and ___ ones. Next I share them into ___ groups.

Half of 28 is .

3 46 frogs swim in a lake.

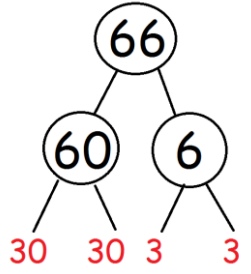


Half of them jump onto lily pads. How many frogs are on lily pads?

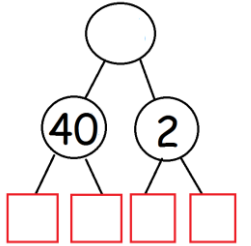
Write the number sentence. ___ ÷ 2 = ___

Work out the division calculations.

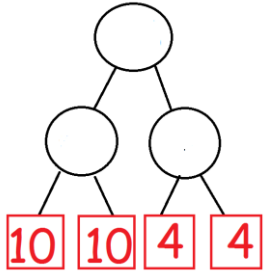
$60 \div 2 = \underline{\quad}$
 $6 \div 2 = \underline{\quad}$
 $66 \div 2 = \boxed{\quad}$




$40 \div 2 = \underline{\quad}$
 $2 \div 2 = \underline{\quad}$
 $\underline{\quad} \div 2 = \boxed{\quad}$



$\underline{\quad} \div 2 = 10$
 $\underline{\quad} \div 2 = 4$
 $\underline{\quad} \div 2 = \boxed{\quad}$



Explain how you worked these out. 

DIVE DEEPER

4

1 Peter and Tom have 26 sheep between them. They need to share them equally. How many do they get each?



Make **26** on your board and share into two. Draw it on your board.



2 Each pack of Fruit Pastilles has 28 sweets and I half them.



First I make 28 using **2** tens and **8** ones. Next I share them into **2** groups.

Half of 28 is .

3 46 frogs swim in a lake.



Half of them jump onto lily pads.

How many frogs are on lily pads?

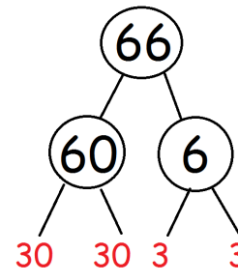
Write the number sentence. $46 \div 2 = 23$

Work out the division calculations.

$$60 \div 2 = 30$$

$$6 \div 2 = 3$$

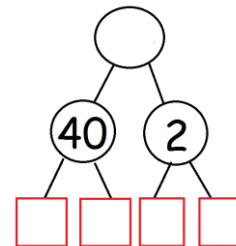
$$66 \div 2 = \text{33}$$



$$40 \div 2 = 20$$

$$2 \div 2 = 1$$

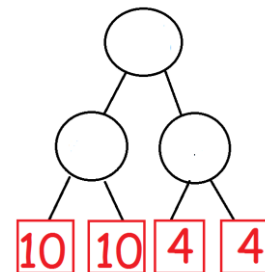
$$42 \div 2 = \text{21}$$



$$20 \div 2 = 10$$

$$8 \div 2 = 4$$

$$28 \div 2 = \text{14}$$



Explain how you worked these out.



DIVE DEEPER 2

1 Eva uses a place value grid to solve $66 \div 3$

Tens		Ones	
10	10	1	1
10	10	1	1
10	10	1	1

Use Eva's method to calculate:

$69 \div 3$

$96 \div 3$

$86 \div 2$

2

Teddy answers the question $44 \div 4$ using place value counters.



Tens		Ones	
10	10	1	1
10	10	1	1

Is he correct?







Explain your reasoning.



Mrs Turner has 86 tennis balls. She thinks that she can give eight classes 11 tennis balls each. Is she correct? Can you show me how you have worked this out?

DIVE DEEPER 2

1 Eva uses a place value grid to solve $66 \div 3$

Tens	Ones
	
	
	

Use Eva's method to calculate:

$$69 \div 3$$

$$96 \div 3$$

$$86 \div 2$$

$$69 \div 3 = 23$$





$$96 \div 3 = 32$$

$$86 \div 2 = 43$$

2

Teddy answers the question $44 \div 4$ using place value counters.



Tens	Ones
	
	

Is he correct?

Explain your reasoning.

Teddy is incorrect because he has divided by 2 and not by 4.

The answer should be 11.



Mrs Turner has 86 tennis balls. She thinks that she can give eight classes 11 tennis balls each. Is she correct? Can you show me how you have worked this out?

Mrs Turner cannot give 11 tennis balls to each class.

She has two tennis balls less than she needs.

Each class would have 10 tennis balls and there would be 6 balls left over.