



# Key Instant Recall Facts

## Year 4 - Autumn 1

### I know addition and subtraction facts for bonds to 100.

The list below gives some examples, but they should know all the number bonds for 100. The aim is for instant recall for each fact in the fact family.

$100 = 100 + 0$	$100 = 75 + 25$	$100 = 48 + 52$
$100 = 90 + 10$	$100 = 25 + 75$	$100 = 52 + 48$
$100 = 80 + 20$	$100 - 25 = 75$	$100 - 52 = 48$
$100 = 70 + 30$	$100 - 75 = 25$	$100 - 48 = 52$
$100 = 60 + 40$	$100 = 37 + 63$	$100 = 89 + 11$
$100 = 50 + 50$	$100 = 63 + 37$	$100 = 11 + 89$
	$100 - 63 = 37$	$100 - 89 = 11$
	$100 - 37 = 63$	$100 - 11 = 89$

#### NOTE

A common mistake is to think that because  $70 + 30 = 100$ ,  $73 + 37$  also gives 100. The answer is in fact 110. To make 100, the **tens** add up to **90** and the **ones** add up to **10**, giving the total of 100:  
for  $37 + 63$ ,  
 $30 + 60 = 90$  and  $7 + 3 = 10$   
 $90 + 10 = 100$

Children should be able to answer the questions in any order, including with the calculations written either side of the equals sign and missing number questions,

e.g.  $100 - 8 = 92$      $100 = 8 + 92$      $92 + \square = 100$      $8 = 100 - \square$

#### Useful Questions

What do I **add to 65 to make 100**?

What is 100 **take away 6**?

What is 13 **less than 100**?

**How many more than 98** is 100?

What is the **difference between 89 and 100**?

#### Top Tips:

The secret to success is to practise little and often - could you practise on the way to school or during a car journey?

You don't need to practise them all at once - perhaps have a fact family of the day. If they can tell you one fact, can they say all the other facts in the family?

Use number bonds to 10 to help - How can number bonds to 10 help you work out number bonds to 100?

## **Make it fun!**

- <http://www.conkermaths.org/cmweb.nsf/products/conkerkirfs.html> Game 11 - How many can you answer in 90 seconds?
- <http://www.topmarks.co.uk/maths-games/hit-the-button> Make 100
- <http://www.snappymaths.com/addsub/make100/interactive/make100imin/make100imin.htm> Make 100
- [http://www.wldps.com/gordons/Bingo\\_-\\_make\\_amounts.swf](http://www.wldps.com/gordons/Bingo_-_make_amounts.swf) Make 100
- <https://www.helpfulgames.com/subjects/mathematics/number-bonds.html> Sums to 100
- Timed Games: How well are you doing? How many questions can you answer in 2 minutes? Can you beat your own record?

## **Deepen and apply**

- [http://www.wldps.com/gordons/Loop\\_cards.swf](http://www.wldps.com/gordons/Loop_cards.swf) interactive loop cards
- $\square\square + \square\square + \square\square = 100$  How many ways can you find?
- <http://nrich.maths.org/11819> Can you make 100?
- <http://nrich.maths.org/1130> Reach 100
- <http://nrich.maths.org/2006> Investigate the deca tree



# Key Instant Recall Facts

## Year 4 - Autumn 2

**I know the multiplication and division facts for the 7 times table.**

By the end of this term, children should know these facts: the aim is for instant recall.

$7 \times 0 = 0$	$0 = 0 \times 7$	$0 \div 7 = 0$	
$7 \times 1 = 7$	$7 = 1 \times 7$	$7 \div 7 = 1$	$7 \div 1 = 7$
$7 \times 2 = 14$	$14 = 2 \times 7$	$14 \div 7 = 2$	$14 \div 2 = 7$
$7 \times 3 = 21$	$21 = 3 \times 7$	$21 \div 7 = 3$	$21 \div 3 = 7$
$7 \times 4 = 28$	$28 = 4 \times 7$	$28 \div 7 = 4$	$28 \div 4 = 7$
$7 \times 5 = 35$	$35 = 5 \times 7$	$35 \div 7 = 5$	$35 \div 5 = 7$
$7 \times 6 = 42$	$42 = 6 \times 7$	$42 \div 7 = 6$	$42 \div 6 = 7$
$7 \times 7 = 49$	$49 = 7 \times 7$	$49 \div 7 = 7$	$49 \div 7 = 7$
$7 \times 8 = 56$	$56 = 8 \times 7$	$56 \div 7 = 8$	$56 \div 8 = 7$
$7 \times 9 = 63$	$63 = 9 \times 7$	$63 \div 7 = 9$	$72 \div 9 = 7$
$7 \times 10 = 70$	$70 = 10 \times 7$	$70 \div 7 = 10$	$70 \div 10 = 7$
$7 \times 11 = 77$	$77 = 11 \times 7$	$77 \div 7 = 11$	$77 \div 11 = 7$
$7 \times 12 = 84$	$84 = 12 \times 7$	$84 \div 7 = 12$	$84 \div 12 = 7$

Children should be able to answer the questions in any order, including with the calculations written either side of the equals sign and missing number questions,

e.g.  $7 \times \square = 21$        $3 = \square \div 87$

### Useful Questions

What is 7 multiplied by 6?

What are 5 lots of 7?      What is 7 times 8?

What is 35 divided by 7?  
times?

What do you get if you have 7, three

### Top Tips:

The secret to success is to practise little and often - could you practise on the way to school or during a car journey? You don't need to practise them all at once - perhaps have a fact of the day, or a fact family of the day.

*Use what you already know:* Your child will already know some of the facts from the x2, x3, x4, x5, x6, x8 and x10 tables.

*Use fact families:* If I know that  $3 \times 7 = 21$ , then  $7 \times 3 = 21$ ,  $21 \div 3 = 7$  and  $21 \div 7 = 3$ . If your child becomes confused about the order of the numbers in the division calculation, use pictures or real-life examples to help: 3 netball teams have 7 children in each, so 21 children are needed ( $7 \times 3 = 21$ ). 21 children are in teams of 7, giving 3 teams ( $21 \div 7 = 3$ )

## Make it fun!

- Use practical resources - lay out pebbles, buttons or other objects in arrays (rows and columns) to represent the facts (e.g.  $4 \times 7 = 28$  can be represented by 7 rows of 4).
- Songs and Chants - You can buy Times Tables CDs or find multiplication songs and chants online. If your child creates their own song, this can make the times tables even more memorable.
- <http://www.conkermaths.org/cmweb.nsf/products/conkerkirfs.html> x7
- <http://www.topmarks.co.uk/maths-games/hit-the-button> x7
- Play number ping pong! Start by saying 'ping', child replies with 'pong'. Repeat with times tables facts i.e. say '9' and they reply '63'
- Test the Parent - Your child can make up their own tricky division questions for you, e.g. What is 42 divided by 7? They need to be able to multiply to create these questions.
- Timed Games: How well are you doing? How many questions can you answer in 2 minutes? Can you beat your own record?
- Games at [www.multiplication.com](http://www.multiplication.com) (You don't have to join to use it)
- Use memory tricks - For those hard-to-remember facts, [www.multiplication.com](http://www.multiplication.com) has some strange picture stories to help children remember.
- <http://teach.files.bbc.co.uk/skillswise/ma13tabl-e3-f-7x-table-tips.pdf>
- <http://www.snappymaths.com/multdiv/7xtable/interactive/newlook/7xtableintd.htm>
- <http://www.snappymaths.com/multdiv/7xtable/interactive/newlook/7xtablebtcd.htm>

## Deepen and apply

- <http://www.snappymaths.com/multdiv/7xtable/interactive/newlook/7xmissintd.htm>
- $7 \times 9 = 63$ . How many different number stories can you write to fit this equation (e.g. I had 8 bags of 9 sweets; how many sweets is that? I had 72 sweets in bags of 8; how many bags did I have?)
- $\square \times 7 = \square \times 3 + \square \times 4$  How many ways can you make this true?
- $\square \times 7 = \square \times 7 + 7$  How many ways can you make this true? What do you notice?
- $\square \times 7 = \square \times 7 - 7$  How many ways can you make this true? What do you notice?
- Can you notice a pattern with odd and even numbers in the products of the 7x table?
- Captain Conjecture says that multiplying a number by 7 is the same as multiplying it by 2, multiplying it by 5 and adding the products together. Is that always, sometimes or never true? How could you prove it? Can you make any other conjectures and test them?



# Key Instant Recall Facts

## Year 4 - Spring 1

**I know the multiplication and division facts for the 11x and 12x tables.**

By the end of this term, children should know these facts: the aim is for instant recall.

$11 \times 0 = 0$	$0 = 0 \times 12$	$0 \div 11 = 0$	$0 \div 12 = 0$
$11 \times 1 = 11$	$12 = 1 \times 12$	$11 \div 11 = 1$	$12 \div 12 = 1$
$11 \times 2 = 22$	$24 = 2 \times 12$	$22 \div 11 = 2$	$24 \div 12 = 2$
$11 \times 3 = 33$	$36 = 3 \times 12$	$33 \div 11 = 3$	$36 \div 12 = 3$
$11 \times 4 = 44$	$48 = 4 \times 12$	$44 \div 11 = 4$	$48 \div 12 = 4$
$11 \times 5 = 55$	$60 = 5 \times 12$	$55 \div 11 = 5$	$60 \div 12 = 5$
$11 \times 6 = 66$	$72 = 6 \times 12$	$66 \div 11 = 6$	$72 \div 12 = 6$
$11 \times 7 = 77$	$84 = 7 \times 12$	$77 \div 11 = 7$	$84 \div 12 = 7$
$11 \times 8 = 88$	$96 = 8 \times 12$	$88 \div 11 = 8$	$96 \div 12 = 8$
$11 \times 9 = 99$	$108 = 9 \times 12$	$99 \div 11 = 9$	$108 \div 12 = 9$
$11 \times 10 = 110$	$120 = 10 \times 12$	$110 \div 11 = 10$	$120 \div 12 = 10$
$11 \times 11 = 121$	$132 = 11 \times 12$	$121 \div 11 = 11$	$132 \div 12 = 11$
$11 \times 12 = 132$	$144 = 12 \times 12$	$132 \div 11 = 12$	$144 \div 12 = 12$

Children should be able to answer the questions in any order, including with the calculations written either side of the equals sign and missing number questions,

e.g.  $11 \times \square = 44$        $4 = \square \div 11$        $7 = \square \div 12$        $\square = \quad \times 12$

### Useful Questions

What is 12 multiplied by 6?

What are 5 lots of 11?

What is 11 times 12?

What is 84 divided by 12?  
times?

What do you get if you have 11, three times?

### Top Tips:

The secret to success is to practise little and often - could you practise on the way to school or during a car journey? You don't need to practise them all at once - perhaps have a fact of the day, or a fact family of the day.

*Use what you already know:* Your child will already know some of the facts from the x2, x3, x4, x5, x6, x7, x8, x9 and x10 tables.

*Use fact families:* If I know that  $3 \times 7 = 21$ , then  $7 \times 3 = 21$ ,  $21 \div 3 = 7$  and  $21 \div 7 = 3$ . If your child becomes confused about the order of the numbers in the division calculation, use pictures or real-life examples to help: 3 netball teams have 7 children in each, so 21 children are needed ( $7 \times 3 = 21$ ). 21 children are in teams of 7, giving 3 teams ( $21 \div 7 = 3$ )

## **Make it fun!**

- Use practical resources - lay out pebbles, buttons or other objects in arrays (rows and columns) to represent the facts (e.g.  $3 \times 12 = 36$  can be represented by 12 rows of 3).
- Songs and Chants - You can buy Times Tables CDs or find multiplication songs and chants online. If your child creates their own song, this can make the times tables even more memorable.
- <http://www.conkermaths.org/cmweb.nsf/products/conkerkirfs.html>
- <http://www.topmarks.co.uk/maths-games/hit-the-button>
- Play number ping pong! Start by saying 'ping', child replies with 'pong'. Repeat with times tables facts i.e. say '6' and they reply '72'
- Test the Parent - Your child can make up their own tricky division questions for you, e.g. What is 132 divided by 12? They need to be able to multiply to create these questions.
- Timed Games: How well are you doing? How many questions can you answer in 2 minutes? Can you beat your own record?
- Use memory tricks - For those hard-to-remember facts, [www.multiplication.com](http://www.multiplication.com) has some strange picture stories to help children remember.
- <http://www.snappymaths.com/multdiv/11xtable/interactive/newlook/11xtableintd.htm>
- <http://www.snappymaths.com/multdiv/11xtable/interactive/newlook/11xtablebtcd.htm>
- <http://www.snappymaths.com/multdiv/12xtable/interactive/newlook/12xtableintd.htm>
- <http://www.snappymaths.com/multdiv/12xtable/interactive/newlook/12xtablebtcd.htm>

## **Deepen and apply**

- <http://www.snappymaths.com/multdiv/12xtable/interactive/newlook/12xmissintd.htm>
- <http://www.snappymaths.com/multdiv/11xtable/interactive/newlook/11xmissintd.htm>
- $11 \times 12 = 132$ . How many different number stories can you write to fit this equation?
- $\square \times 12 = \square \times 6 \times 2$  How many ways can you make this true?
- Write out the products of the 12x table and the 6x table. What do you notice? Can you explain it?
- Captain Conjecture says that multiplying a number by 12 is the same as multiplying it by 3 and then multiplying the answer by 4. Is that always, sometimes or never true? How could you prove it? Can you make any other conjectures and test them?
- If a number is in the 12 times table, which other times tables must it be in? how do you know?
- What do you notice about the first 9 products of the 11 times table? Can you explain it?
- Is it always, sometimes or never true that adding two multiples of 11 will give a multiple of 11?



# Key Instant Recall Facts

## Year 4 - Spring 2

**I know all the multiplication and division facts up to  $12 \times 12$ .**

Children should know all of these facts: the aim is for instant recall.

0	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Children should be able to answer the questions in any order, including with the calculations written either side of the equals sign and missing number questions,

e.g.  $11 \times \square = 99$        $6 = \square \div 8$        $9 = \square \div 12$        $32 = \square \times 4$

### Useful Questions

What is 12 **multiplied by** 9?

What are 8 **lots of** 9?

What is 4 **times** 7?

What is 108 **divided by** 12?

What do you get if you have 6, **eight times**?

What is **the product of** 8 and 9?

### Top Tips:

The secret to success is to practise little and often - could you practise on the way to school or during a car journey? You don't need to practise them all at once - perhaps have a fact of the day, or a fact family of the day.

*Use what you already know:* Which facts do you already know that could help you work it out? (Avoid counting up - this is not an efficient strategy)

*Use fact families:* If I know that  $3 \times 7 = 21$ , then  $7 \times 3 = 21$ ,  $21 \div 3 = 7$  and  $21 \div 7 = 3$ .

Focus on the facts you find more difficult to remember and keep repeating them.

## **Make it fun!**

- Use practical resources - lay out pebbles, buttons or other objects in arrays (rows and columns) to represent the facts (e.g.  $3 \times 12 = 36$  can be represented by 12 rows of 3).
- Songs and Chants - You can buy Times Tables CDs or find multiplication songs and chants online. If your child creates their own song, this can make the times tables even more memorable.
- <http://www.conkermaths.org/cmweb.nsf/products/conkerkirfs.html>
- <http://www.topmarks.co.uk/maths-games/hit-the-button>
- Play number ping pong! Start by saying 'ping', child replies with 'pong'. Repeat with times tables facts i.e. say '6' and they reply '72'
- Test the Parent - Your child can make up their own tricky division questions for you, e.g. What is 132 divided by 12? They need to be able to multiply to create these questions.
- Timed Games: How well are you doing? How many questions can you answer in 2 minutes? Can you beat your own record?
- Use memory tricks - For those hard-to-remember facts, [www.multiplication.com](http://www.multiplication.com) has some strange picture stories to help children remember.
- <https://www.bbc.co.uk/teach/skillswise/times-tables/z4qs7nb>
- <http://www.snappymaths.com/multiplication/1to12xtab/interactive/1to12ximm/1to12ximm.htm>
- <https://www.timestables.co.uk/>

## **Deepen and apply**

- Choose a fact family from the times tables. How many different number stories can you write to fit your equation?
- Write out the products of the 3, 6, 9 and 12 times tables - which facts do they have in common? Can you explain why? Can you find any other times tables that have facts in common?
- Choose a times table and write it out. Is there a pattern in the ones digits? Is there a pattern in the tens digits? Does the pattern go on forever? How could you convince me?
- Choose target number. How many different ways can you make that number using multiplication or division (e.g.  $12 = 2 \times 6$ ,  $12 = 3 \times 4$ ,  $12 = 1 \times 12$ ,  $12 = 24 \div 2$ ,  $12 = 48 \div 4$ ,  $12 = 2 \times 3 \times 2$ ,  $12 = 96 \div 2 \div 2 \div 2$ ).
- <https://nrich.maths.org/4905>
- <https://nrich.maths.org/6924>





# Key Instant Recall Facts

## Year 4 - Summer 1

I know fraction and decimal equivalents.

$\frac{1}{2} = \frac{5}{10} = \frac{50}{100} = 0.5$	$\frac{1}{10} = 0.1$	$\frac{6}{10} = 0.6$	$\frac{1}{100} = 0.01$	$\frac{10}{100} = 0.1$
	$\frac{2}{10} = 0.2$	$\frac{7}{10} = 0.7$	$\frac{5}{100} = 0.05$	$\frac{50}{100} = 0.5$
$\frac{1}{4} = \frac{25}{100} = 0.25$	$\frac{3}{10} = 0.3$	$\frac{8}{10} = 0.8$	$\frac{7}{100} = 0.07$	$\frac{70}{100} = 0.7$
	$\frac{4}{10} = 0.4$	$\frac{9}{10} = 0.9$	$\frac{45}{100} = 0.45$	$\frac{99}{100} = 0.99$
$\frac{3}{4} = \frac{75}{100} = 0.75$	$\frac{5}{10} = 0.5$	$\frac{10}{10} = 1$	$\frac{33}{100} = 0.33$	$\frac{100}{100} = 1$

Children should be able to convert between fractions and decimals for  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{3}{4}$ , and any number of tenths or hundredths.

### Useful Questions

How many **tenths** is 0.8?

How many **hundredths** is 0.8?

How many **hundredths** is 0.12?

How many **tenths** is 0.80?

### Top Tips:

The secret to success is to practise little and often - could you practise on the way to school or during a car journey? You don't need to practise them all at once - perhaps have a fact of the day, or a fact of the day.

A common mistake with hundredths is to think that  $\frac{5}{100}$  is the same as 0.5 but this is incorrect. 0.5 is equivalent to  $\frac{5}{10}$  which is equivalent to  $\frac{50}{100}$ . This can be seen on a place value chart, as shown below. 0.5 and 0.50 have exactly the same value.

ONES	decimal point	tenths	hundredths	Fraction equivalent
0	•	5		$\frac{5}{10}$
0	•	0	5	$\frac{5}{100}$
0	•	5	0	$\frac{50}{100} = \frac{5}{10}$

### **Make it fun!**

- Count up and down in tenths and hundredths, counting out loud
- Play games - Make some cards with pairs of equivalent fractions and decimals. Use these to play the memory game or snap. Or make your own dominoes with fractions on one side and decimals on the other.
- <http://www.snappymaths.com/counting/decimals/interactive/w10th100thdec/w10th100thdec.htm> Writing tenths and hundredths as decimals
- <http://nrich.maths.org/1249> Matching fractions and decimals
- <http://www.sheppardsoftware.com/mathgames/fractions/FractionsToDecimals.htm>

### **Deepen and apply**

- <http://www.snappymaths.com/counting/fractions/interactive/tenthsandhundredths/tenthsandhundredths.htm>
- <http://www.snappymaths.com/counting/fractions/interactive/hundredths/hundredths.htm> Can you write it as a decimal and a fraction?
- <http://www.snappymaths.com/counting/fractions/interactive/tenthsint/tenthsint.htm> Can you write it as a decimal and a fraction?
- Write a decimal number (to one decimal place) which lies between a half and three quarters? How many more can you find?
- Write a fraction with a denominator of one hundred which has a value of more than 0.75? ... and another, ... and another, ...
- Is it always, sometimes or never true that if the numerator is half the denominator then the fraction is equivalent to 0.5? Explain your answer.



# Key Instant Recall Facts

## Year 4 - Summer 2

I know the effect of multiplying or dividing a one-digit or two-digit number by 10 or 100. Children should be able to **quickly** work out facts like the ones below.

$7 \times 10 = 70$

$56 \times 10 = 560$

$7 \times 100 = 700$

$56 \times 100 = 5600$

$10 \times 7 = 70$

$10 \times 56 = 560$

$100 \times 7 = 700$

$100 \times 56 = 5600$

$70 \div 7 = 10$

$560 \div 10 = 56$

$700 \div 100 = 7$

$5600 \div 100 = 56$

$70 \div 10 = 7$

$560 \div 56 = 10$

$700 \div 7 = 100$

$5600 \div 56 = 100$

$7 \div 10 = 0.7$

$56 \div 10 = 5.6$

$7 \div 100 = 0.07$

$56 \div 100 = 0.56$

$70 \times 10 = 700$

$28 \times 10 = 280$

$70 \times 100 = 7000$

$28 \times 100 = 2800$

$10 \times 70 = 700$

$10 \times 28 = 280$

$100 \times 70 = 7000$

$100 \times 28 = 2800$

$700 \div 10 = 70$

$280 \div 10 = 28$

$7000 \div 100 = 70$

$2800 \div 100 = 28$

$700 \div 70 = 10$

$280 \div 28 = 10$

$7000 \div 70 = 100$

$2800 \div 28 = 100$

$28 \div 10 = 2.8$

$70 \div 100 = 0.7$

$28 \div 100 = 0.28$

These are just a few examples. Children should be able to answer questions in any order, including missing number questions

e.g.  $1\boxed{\phantom{0}} \times \phantom{00} = 5 \phantom{00} \phantom{00} \div 10 = 60$        $13\boxed{\phantom{0}}100 =$

### Useful Questions

What is 5 **multiplied by** 10?

What is 10 **times** 0.9?

What is 700 **divided by** 70?

How many tenths will you get if you divide 14 by ten?

### Top Tips:

The secret to success is to practise little and often - could you practise on the way to school or during a car journey? You don't need to practise them all at once - perhaps have a fact of the day, or a fact of the day.

Keep referring to the key language of tenths and hundredths.

## **Make it fun!**

- <http://www.snappymaths.com/counting/decimals/interactive/div1dby10100/div1dby101000.htm> divide by 10 or 100
- <http://www.snappymaths.com/counting/decimals/resources/div1dby10.pdf> dividing 1 digit by 10 worksheet
- <http://www.snappymaths.com/counting/decimals/resources/div1dby100.pdf> dividing 1 digit by 100 worksheet.
- [http://resources.hwb.wales.gov.uk/VTC/phase4\\_20030829/Mathematics/Keystage2/Numbers/Tenthsandhundre/Introduction/whiteboard2.htm](http://resources.hwb.wales.gov.uk/VTC/phase4_20030829/Mathematics/Keystage2/Numbers/Tenthsandhundre/Introduction/whiteboard2.htm)
- Play number ping pong! Start by saying 'ping', child replies with 'pong'. Repeat with numbers i.e. say '9' and they reply '0.9' (for divide by 10)
- Timed Games: How well are you doing? How many questions can you answer in 2 minutes? Can you beat your own record?

## **Deepen and apply**

- I divide a number by 100 and the answer is 0.3. What number did I start with?
- Write down a number with one decimal place which when multiplied by 10 gives an answer between 120 and 130 and another, ... and another, ...
- Is it always, sometimes or never true that multiplying a number by 10 makes it bigger? Explain your answer.
- <http://www.topmarks.co.uk/Flash.aspx?f=BingoMultiplicationv9> Try applying it to tables questions
- <http://www.topmarks.co.uk/Flash.aspx?f=inversemachinev3> Investigate the different inverse relationships
- Try learning your 0.7 times table or your 70 times table, using what you already know.