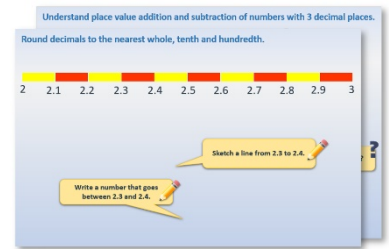


# Week 15, Day 1

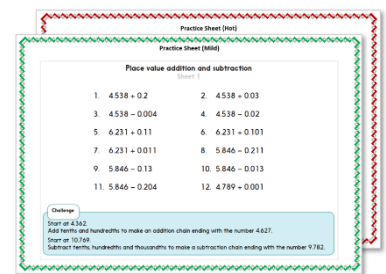
## Multiplication and division facts

Each day covers one maths topic. It should take you about 1 hour or just a little more.

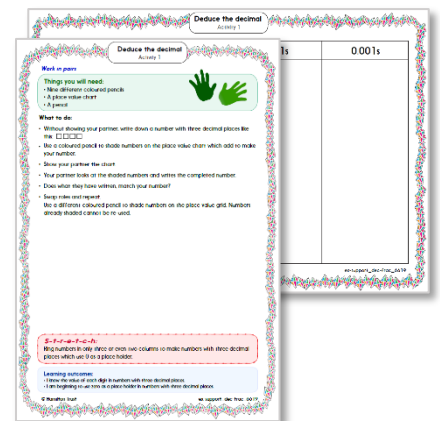
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



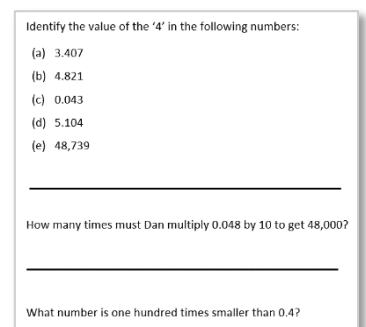
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



3. Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**



4. Have I mastered the topic? A few questions to **Check your understanding**. Fold the page to hide the answers!



## Learning Reminders

Revise times tables and related facts.

Many tables facts are related...

4 x 6 is the same product as 6 x 4 as numbers can be multiplied in any order.

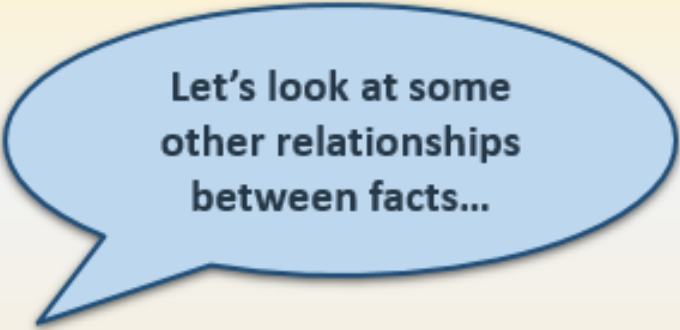
5 x 7 is the same as 7 x 5

3 x 8 is the same as 8 x 3

10 x 6 is the same as 6 x 10

## Learning Reminders

Revise times tables and related facts.



Let's look at some other relationships between facts...

$3 \times 4 = 12$ , so  $3 \times 8 = \text{double } 12$ , which is 24.

If  $5 \times 6 = 30$  then  $5 \times 12 = 60$ .

$4 \times 8 = 32$ , so  $4 \times 4 = \text{half of } 32$ , which is 16.

If  $7 \times 6 = 42$  then  $7 \times 3 = 21$ .

## Learning Reminders

Revise times tables and related facts.

$$4 \times 6 = 24$$

$$6 \times 4 = 24$$

$$24 \div 4 = 6 \quad 24 \div 6 = 4$$

$$6 \times 8 = 48 \quad 8 \times 6 = 48$$

$$48 \div 8 = 6 \quad 48 \div 6 = 8$$

$$4 \times 12 = 48 \quad 12 \times 4 = 48$$

$$48 \div 12 = 4 \quad 48 \div 4 = 12$$

Write some related tables facts.

Remember, if we know how many 6s are in 24, then we can write a division fact too!

Can you see how writing in a different order and doubling helped to produce these facts?

## Practice Sheet Mild

### Related multiplication and division facts

For each of these calculations write one related multiplication and one related division fact.

$3 \times 12 = 36$

$5 \times 6 = 30$

$2 \times 9 = 18$

$4 \times 8 = 32$

$3 \times 7 = 21$

## Practice Sheet Hot

### Related multiplication and division facts

For each of these calculations write at least one related multiplication and one related division fact.

$2 \times 9 = 18$

$4 \times 8 = 32$

$3 \times 7 = 21$

$5 \times 12 = 60$

$4 \times 9 = 36$

$8 \times 6 = 48$

$8 \times 8 = 64$

$6 \times 11 = 66$

## Practice Sheets Answers

### Related multiplication and division facts (mild)

$3 \times 12 = 36$	$12 \times 3 = 36$	and	$36 \div 12 = 3$	or	$36 \div 3 = 12$
$5 \times 6 = 30$	$6 \times 5 = 30$	and	$30 \div 5 = 6$	or	$30 \div 6 = 5$
$2 \times 9 = 18$	$9 \times 2 = 18$	and	$18 \div 2 = 9$	or	$18 \div 9 = 2$
$4 \times 8 = 32$	$8 \times 4 = 32$	and	$32 \div 8 = 4$	or	$32 \div 4 = 8$
$3 \times 7 = 21$	$7 \times 3 = 21$	and	$21 \div 3 = 7$	or	$21 \div 7 = 3$

### Related multiplication and division facts (hot)

$2 \times 9 = 18$	$9 \times 2 = 18$	$18 \div 2 = 9$	$18 \div 9 = 2$
$4 \times 8 = 32$	$8 \times 4 = 32$	$32 \div 8 = 4$	$32 \div 4 = 8$
$3 \times 7 = 21$	$7 \times 3 = 21$	$21 \div 3 = 7$	$21 \div 7 = 3$
$5 \times 12 = 60$	$12 \times 5 = 60$	$60 \div 5 = 12$	$60 \div 12 = 5$
$4 \times 9 = 36$	$9 \times 4 = 36$	$36 \div 9 = 4$	$36 \div 4 = 9$
$8 \times 6 = 48$	$6 \times 8 = 48$	$48 \div 8 = 6$	$48 \div 6 = 8$
$8 \times 8 = 64$	$64 \div 8 = 8$		
$6 \times 11 = 66$	$11 \times 6 = 66$	$66 \div 6 = 11$	$66 \div 11 = 6$

## A Bit Stuck? Fact families

Write two multiplication facts and two division facts to go with each picture.



$2 \times 4 = \square$

$4 \times 2 = \square$

$8 \div 4 = \square$

$8 \div 2 = \square$

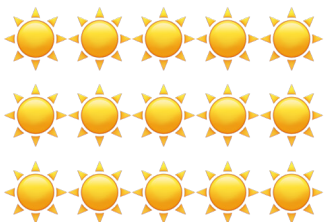


$4 \times 3 = \square$

$3 \times \square = \square$

$12 \div 3 = \square$

$12 \div \square = \square$



$3 \times 5 = \square$

$\square \times \square = \square$

$\square \div \square = \square$

$\square \div \square = \square$



$3 \times 6 = \square$

$\square \times \square = \square$

$\square \div \square = \square$

$\square \div \square = \square$

For even more practice, play Number facts families at  
<https://www.topmarks.co.uk/number-facts/number-fact-families>.

Choose:  $\times$  and  $\div$ . 2 to 5 times tables.



## Check your understanding

### Questions

Write  $8 \times 6 = 48$  in the middle of a space and circle it.

Draw 8 spider legs out from it.

Write 8 related number sentences using this central fact.

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Always true, sometimes true or never true?

- $6 \times 8$  is the same as  $4 \times 12$ .
- Dividing a number by 3 gives an odd answer.

*Fold here to hide answers.*

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## Check your understanding

### Answers

Write  $8 \times 6 = 48$  in the middle of a space and circle it.

Draw 8 spider legs out from it.

Write 8 related number sentences using this central fact.

e.g.  $6 \times 8 = 48$ ;  $80 \times 6 = 480$ ;  $8 \times 60 = 480$ ;  $800 \times 6 = 4800$ ;  $8 \times 600 = 4800$ ;  $80 \times 60 = 4800$ ;  $48 \div 6 = 8$ ;  $48 \div 8 = 6$ ;  $4 \times 6 = 24$ ;  $6 \times 4 = 24$ ;  
 $9 \times 6 = 54$ ....

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Always true, sometimes true or never true?

- $6 \times 8$  is the same as  $4 \times 12$ . **True, both equal 48.**
- Dividing a number by 3 gives an odd answer. **Sometimes, e.g.  $9 \div 3 = 3$  but  $12 \div 3 = 4$ . (Children should give examples).**