

Copy these calculations out in your book and answer the 12 questions. You could even time yourself to see how quickly you can answer them and see if you can beat your previous time (you will be getting a set of times table questions each day). Choose the times table you've been practising at school or maybe challenge yourself to answer them all!

3 times table	4 times table	8 times table	Mixed x/÷
$3 \times 3 =$	$5 \times 4 =$	$8 \times 10 =$	$2 \times 5 =$
$4 \times 3 =$	$4 \times 4 =$	$2 \times 8 =$	$36 \div 4 =$
$10 \times 3 =$	$10 \times 4 =$	$8 \times 6 =$	$50 \div 10 =$
$3 \times 1 =$	$4 \times 11 =$	$1 \times 8 =$	$2 \times 7 =$
$11 \times 3 =$	$4 \times 1 =$	$3 \times 8 =$	$11 \times 6 =$
$9 \times 3 =$	$6 \times 4 =$	$5 \times 8 =$	$16 \div 4 =$
$3 \times 2 =$	$8 \times 4 =$	$4 \times 8 =$	$88 \div 11 =$
$3 \times 5 =$	$4 \times 9 =$	$8 \times 12 =$	$10 \times 10 =$
$6 \times 3 =$	$2 \times 4 =$	$8 \times 8 =$	$8 \times 8 =$
$3 \times 7 =$	$7 \times 4 =$	$9 \times 8 =$	$28 \div 4 =$
$12 \times 3 =$	$3 \times 4 =$	$8 \times 7 =$	$6 \times 4 =$
$3 \times 8 =$	$12 \times 4 =$	$11 \times 8 =$	$18 \div 3 =$

Starter (quick revision):

## Adding and subtracting fractions

Remember when adding and subtracting fractions the denominator doesn't change!

$$\textcircled{1} \frac{2}{5} + \frac{1}{5} =$$

$$\textcircled{3} \frac{7}{10} - \frac{5}{10} =$$

$$\textcircled{2} \frac{3}{8} + \frac{4}{8} =$$

$$\textcircled{4} \frac{1}{6} + \frac{4}{6} =$$

$$\textcircled{5} \frac{8}{9} - \frac{6}{9} =$$

Can you change the challenge answers from a top heavy fraction to a mixed fraction?

Challenge :

$$\textcircled{1} \frac{2}{3} + \frac{2}{3} =$$

$$\textcircled{2} \frac{4}{7} + \frac{5}{7} =$$

$$\textcircled{3} \frac{4}{5} + \frac{3}{5} =$$

Example:  $\frac{3}{4} + \frac{3}{4} = \frac{6}{4} = 1 \frac{2}{4}$

*This first lesson we are going to recap column addition and subtraction. Use the following slides to remind yourself of the method, both with and without exchanging.*

## Addition without exchanging

$$453 + 34 =$$

	H	T	O
	4	5	3
+		3	4
	4	8	7

Remember to line your columns up correctly. The place value of each number is really important!

*Always start with the ones column, then tens, then hundreds!*

# Addition with exchanging and carrying

$$218 + 464 =$$

	H	T	O
	2	1	8
+	4	6	4
<hr/>			
	6	8	2
		1	

If the answer in a column is a 2 digit number, don't forget to carry it underneath the next column and add it on to that column!

# Addition with exchanging and carrying

$$472 + 269 =$$

	H	T	O
	4	7	2
+	2	6	9
<hr/>			
	7	4	1

If the answer in a column is a 2 digit number, don't forget to carry it underneath the next column and add it on to that column!

# Addition with exchanging and carrying

$$350 + 867 =$$

	Th	H	T	O
+		3	5	0
		8	6	7
<hr/>				
	1	2	1	7

A vertical pink line is drawn under the '2' in the hundreds column of the result.

If the answer in the hundreds column (last column you are adding in the calculation) is 2 digits put it into the thousands column!

# Subtraction without exchanging

$$256 - 24 =$$

	H	T	O
	2	5	6
-		2	4
	2	3	2

Don't forget to look carefully at the operation. Are you adding or subtracting?



## Subtraction with exchanging

$$352 - 127 =$$

H T O

$$\begin{array}{r} 3^4 \cancel{5} 2 \\ - 127 \\ \hline 225 \end{array}$$

If you don't have enough to take away ( $2 - 7 =$ ), exchange from the next column.

## Subtraction with exchanging

$$512 - 248 =$$

	H	T	O
	45	<del>10</del>	12
-	2	4	8
<hr/>			
	4	6	4

When exchanging, make sure you cross the number out you exchange and take one (ten/hundred) away and write down what's left!

Write these questions out in your books and use column addition or subtraction to answer them. Think about how you are going to set each calculation, thinking carefully about place value. Look back at the slides to prompt you if necessary.

$$1. 638 - 219 =$$

$$6. 523 - 146 =$$

$$2. 157 + 36 =$$

$$7. 145 + 267 =$$

$$3. 751 - 185 =$$

$$8. 284 - 70 =$$

$$4. 273 + 498 =$$

$$9. 806 - 289 =$$

$$5. 875 + 128 =$$

$$10. 208 + 913 =$$

Answers will follow tomorrow.

## Extension:

Explain the mistakes for each of these questions in your book. See if you can use some of the sentence stems on the next slide.

### Explain the mistakes

$$628 - 56$$

**Mistake 1**

$$\begin{array}{r} 628 \\ - 56 \\ \hline 632 \end{array}$$

**Mistake 2**

$$\begin{array}{r} 5 \phantom{0} | 28 \\ \cancel{6} 28 \\ - 56 \\ \hline 068 \end{array}$$

**Mistake 3**

$$\begin{array}{r} 5 \phantom{0} | 28 \\ \cancel{6} 28 \\ - 56 \\ \hline 582 \end{array}$$

## Problem solving sentence stems

I already know that ... so ...

I started by ...

I checked by ...

I decided to ... because ...

I noticed that...

I wondered why ...

The pattern I noticed was ...

I used the inverse of ...

I used the fact that ...

I was systematic because I ...

## Reasoning sentence stems

It can't be ... because ...

I noticed that...

It must be ... because ...

This is true here because ...

If ... then ...

I wonder whether ...

This is different because ...

I already know that ... so ...

This is the same because ...

I know that ... because ...

I think that ... because ...

This is always true because ...