$$
\begin{aligned}
& \text { :(w) } \\
& \text { Spring } \\
& \text { Home } \\
& \text { Learning } \\
& \text { Pack E } \\
& \text { Maths }
\end{aligned}
$$

## Contents:

## Maths

## 10 times table activities

2 calculation activities
2 problem solving activities
2 reasoning activities
2 place value activities

# Times tables 

Activities

## Times Tables- Daily Practise 1

Complete the times tables grids.

| $X$ | 11 | 8 | 9 | 7 | 4 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 9 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 7 |  |  |  |  |  |
| 6 |  |  |  |  |  |


| $X$ | 8 | 4 | 6 | 3 | 7 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 12 |  |  |  |  |  |
| 8 |  |  |  |  |  |
| 11 |  |  |  |  |  |
| 6 |  |  |  |  |  |
| 9 |  |  |  |  |  |

Timetables- Practise 2

Find factor pairs to complete these calculations:
(a) $\square \times \square=20$
(e)

(b) $\square \times \square=20$
(f)

(c) $\square \times \square=36$
(g)

(d)

(h)

$=72$

## Timetables-Practise 3

Seven times table practise

| $3 \times 7=$ | $14 \div 7=$ | $42 \div 7=$ |
| :--- | :--- | :--- |
| $10 \times 7=$ | $7 \times 7=$ | $63 \div 7=$ |
| $21 \div 7=$ | $49 \div 7=$ | $1 \times 7=$ |
| $7 \div 7=$ | $9 \times 7=$ | $84 \div 7=$ |

Timetables- Practise 4
Nine times table practise
Complete the divisions below:
$\square \div 9=11$
$\square \div 9=6$
$\square \div 11=11$
$\square \div 9=7$
$\square \div 11=12$
$\square \div 9=9$
$\square \div 11=10$
$\square \div 9=8$
$\square \div 9=12$

## Timetables- Practise 5

Is the number sentence true or false?

$$
2 \times 6=4 \times 3
$$

Is the number sentence true or false?

$$
4 \times 8=5 \times 7
$$

Is the number sentence true or false?

$$
3 \times 8=5 \times 6
$$

Is the number sentence true or false?

$$
6 \times 6=5 \times 5
$$

## Timetables- Practise 6

Complete the times tables wheel


Timetables- Practise 7

Use your knowledge of times tables to fill in the missing

1. $4 \times$ $\qquad$ $=16$
2. $\qquad$ $\div 6=4$
3. $30 \div$ $\qquad$ $=5$
4. $7 \times$ $\qquad$ $=42$
5. $\qquad$ $\div 8=3$
6. $27 \div$
$\qquad$ $=9$
7. $\qquad$ $\times 6=30$
8. $\qquad$ $\div 7=7$

Timetables- Practise 8

## Let's Mix up the Times Tables!

| A | 12 |
| :---: | :---: |
| B | 8 |
| C | 9 |
| D | 7 |
| E | 12 |
| F | 6 |
| G | 5 |
| H | 12 |



| I | 11 |
| :---: | :---: |
| J | 9 |
| K | 5 |
| L | 6 |
| M | 8 |
| N | 7 |
| O | 12 |
| P | 10 |

Multiply the two letters. For example, $A=12$ and $P=10$. This means $12 \times 10=120$

| AP | AI | AJ | AK | AL | AM | AN | AO |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BP | BI | BJ | BK | BL | BM | BN | BO |
| CP | Cl | CJ | CK | CL | CM | CN | CO |

## Timetables- Practise 9

Complete the grid below.


| $X$ |  | 8 |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  | 99 |  | 45 |  |
|  |  | 48 |  | 42 |
| 2 |  |  |  |  |
|  |  | 24 |  |  |

Example:
$40 \div 10=4$

Timetables-Practise 10

1. $6 \times$ $\qquad$ $=48$
2. $\qquad$ $\div 12=9$
3. $\qquad$ $\times 9=63$
4. $5 \times$ $\qquad$ $=25$
5. $7 \times$ $\qquad$ $=35$
6. $\qquad$ $\div 8=20$
7. $\qquad$ $\div 12=12$
8. $99 \div$ $\qquad$ $=9$
9. $\qquad$ $\times 9=36$

Maths
Activities

## Year 4 written methods



Year 4 Multiply 2 and 3 -digits by a single digit, using
all multiplication tables up to $12 \times 12$

## Developing the grid method:

Eg. $136 \times 5=680$

| $X$ | 100 | 30 | 6 |
| :---: | :---: | :---: | :---: |
| $\mathbf{5}$ | 500 | 150 | 30 |



Move orto short multiplication (see Y5) if and when children are confident and accurate multiplying 2 and 3 -digit numbers by a single digit this way, and ov dwofy cafisent is arying to mitten osistion.

Children should be able to:

- Approximate before they calculate, and make this a regularpart of their calculating, going back to the approximation to check the reasonableress of their answer. eg:
$346 \times 9$ is approximately $350 \times 10=3500$
Record an approximation to check the firal answer against.
- Multiply multiples of ten and ore hurdred by a single-digit, using their multiplication toble knowledge.
Recall all times tables up to $12 \times 12$




## Calculations-Activity 1

Use your Year 4 written method to solve the calculations below. Look at the operation being used and use the written method help sheet.

## Addition

$65+89=$
$32+78=$
$124+54=$
$318+829=$

Subtraction
429-321 =
892-120 =
230-27 =
983-431 =

## Multiplication

$23 \times 6=$
$320 \times 4=$
$489 \times 7=$
$509 \times 8=$

## Division

$192 \div 6=$
$235 \div 5=$
$162 \div 9=$
$184 \div 8=$

## Calculations-Activity 2

Use your Year 4 written method to solve the below calculations. Look at the operation being used and use the written method help sheet.

## Addition

$81+73=$
$92+29=$
$561+463=$
$914+321=$

## Subtraction

38-16 =
239-71 =
673-124 =
$2,294-1,062=$
$790 \times 4=$

## Multiplication

$32 \times 3=$
$63 \times 2=$
$824 \times 5=$

$$
219 \times 6=
$$

## Division

$54 \div 3=$
$248 \div 4=$
$85 \div 5=$
$114 \div 6=$

## Multiplication \& Division

1) The school has a singing group of more than 12 singers but less than 32. They sing together in different ways. Sometimes they sing in pairs and sometimes in groups of 3,4 or 6 . Whatever size groups they are in, no one is left out and everyone is singing. How many singers are there in the school choir?
2) Miss Wood orders some new whiteboard pens for Year 5 and 6. There are 160 children in Year 5 and 6. If she orders 6 boxes of 27 pens, will she have enough? Show your calculation.

## Problem Solving-Activity 2

## Multiplication \& Division

1) What could the numbers in the multiplication be?

Every digit is different. ?
?? $\times 3=$ ????
2) In one month, Charlie read 814 pages in his books. His mum read 4 times as much as Charlie which was 184 pages more than Charlie's dad. How many pages did they read altogether? Use a bar model to help.

## 1) Always, sometimes or never?

An even number that is divisible by 3 is also divisible by 6 .
2) Fill in the missing numbers
$25 \times 3=\square=\square \div \square$

Reasoning- Activity 2

1) Penny says a two digit number multiplied by a one digit number will always give a two digit answer. Is she correct? Justify your answer.
2) Find the mistake that has been made in the calculation below. Explain and correct it.

## 47

X 8
3256

## Place Value- Activity 1

1) 

|  | Nearest <br> 10 | Nearest <br> 100 | Nearest <br> 1000 |
| :---: | :---: | :---: | :---: |
| 667 |  |  |  |
| 1274 |  |  |  |
| 2495 |  |  |  |

2) What number is
represented below?


Use place value counters to represent the following numbers:
1245, 3015, 4702
3) Amelia says 'The number in the place value grid is the largest number you can make with 8 counters.' Do you agree? Prove your answer.


## Place Value- Activity 2

1. Caroline thinks that the largest whole number that rounds to 400 is 449. Is she correct? Explain why.
2. Henry says ' 747 to the nearest 10 is 740 .' Do you agree with Henry? Explain why.
3. A number rounded to the nearest 10 is 550 . What is the smallest possible number it could be?
