## Year 4: Week 6, Day 1 <br> The 7 times table

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. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the Investigation...

## Learning Reminders

## Begin to know multiplication and division facts for the $\mathbf{7}$ times table.



How many 7s are in 77?

## Learning Reminders

Begin to know multiplication and division facts for the 7 times table.

| pattern do the | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| multiples of 7 make on the 1-100 grid? | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|  | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| $y$ number on the | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| tables isn't as helpful as for | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| ctivities will help us | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| m! | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

## Practice Sheet Mild 7 times table

Use this grid to complete the calculations using the 7 times table.

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

$$
\begin{array}{ll}
7 \times 4=\square & \square \div 7=6 \\
42=7 \times \square & 7 \times \square=14 \\
63 \div 7=\square & \\
8 \times 7=\square & \\
7 \div 7=7 \times 7=7 \times 7
\end{array}
$$

## Practice Sheet Hot 7 times table

## Write the multiples of 7 on this grid.

Use it to complete the calculations using the 7 times table.

| 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 10 | 11 | 12 | $7 \times 4=$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 4 | 6 | 8 | 10 | 12 | 16 | 18 | 20 | 22 | 24 | $42=7$ |
| 3 | 6 | 9 | 12 | 15 | 18 | 24 | 27 | 30 | 33 | 36 | $\square$ |
| 4 | 8 | 12 | 16 | 20 | 24 | 32 | 36 | 40 | 44 | 48 |  |
| 5 | 10 | 15 | 20 | 25 | 30 | 40 | 45 | 50 | 55 | 60 | $7 \times$ |
| 6 | 12 | 18 | 24 | 30 | 36 | 48 | 54 | 60 | 66 | 72 |  |
| 8 | 16 | 24 | 32 | 40 | 48 | 64 | 72 | 80 | 88 | 96 | $7 \times \square=$ |
| 9 | 18 | 27 | 36 | 45 | 54 | 72 | 81 | 90 | 99 | 108 | $9=\square \div 7$ |
| 10 | 20 | 30 | 40 | 50 | 60 | 80 | 90 | 100 | 110 | 120 |  |
| 11 | 22 | 33 | 44 | 55 | 66 | 88 | 99 | 110 | 121 | 132 | $x 7=49$ |
| 12 | 24 | 36 | 48 | 60 | 72 | 96 | 108 | 120 | 132 | 144 | $\div 7=1$ |

Challenge
Shade the multiples of 7 on
the right hand grid. Look at the
pattern and describe it.
This grid has 8 columns. If the grid
had 7 columns, what would the
pattern be?
If the grid had 9 columns, what
would the pattern be?
What if the grid had 6 columns?

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |
| 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |
| 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 |
| 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |

## Practice Sheet Answers

## 7 times table (mild)

$7 \times 4=28$
$42=7 \times 6$
$3 \times 7=21$
$63 \div 7=9$
$8 \times 7=56$
$7 \div 1=7$

$$
\begin{aligned}
& 42 \div 7=6 \\
& 7 \times 2=14 \\
& 77=7 \times 11 \\
& 70 \div 7=10 \\
& 7 \times 7=49 \\
& 84=12 \times 7
\end{aligned}
$$

## 7 times table (hot)

$7 \times 4=28$
$42=7 \times 6$
$56 \div 7=8$
$7 \times 12=84$
$11 \times 7=77$
$7 \times 3=21$
$9=63 \div 7$
$7 \times 7=49$
$7 \div 7=1$

## Challenge

The pattern moves back by 1 on each row. If it had 7 columns it would be straight down. If it had 9 columns it would drop back by 2 on each row. If it had 6 columns it would move forward by 1 on each row.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |
| 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |
| 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 |
| 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |

Things you will need:
1 to 12 cards

## A Bit Stuck?

## What to do:

Shuffle the set of 1 to 12 cards, then take one.
Count that number of 7 s down the middle column of the table (on next page), e.g. If you have the number 4 card, count four 7s: 7, 14, 21, 28.

Complete the multiplication and division calculations - that one is done for you:
$4 \times 7=28,28 \div 7=4$
Keep going until you have completed the table!
Turn the table over, shuffle the cards again, then take one.
Multiply the number on it by 7 . Can you remember the answer? If not, count on in 7 s , then check you answer by looking at the table.

Repeat until you have used all the cards.
Do you know a more facts for the 7 times table now, than you did before this activity?

| $\square \times 7=$ | 7 | $\div 7=\square$ |
| ---: | :---: | :--- |
| $\square \times 7=$ | 14 | $\div 7=\square$ |
| $\square \times 7=$ | 21 | $\div 7=\square$ |
| $4 \times 7=$ | 28 | $\div 7=4$ |
| $\square \times 7=$ | 35 | $\div 7=\square$ |
| $\square \times 7=$ | 42 | $\div 7=\square$ |
| $\square \times 7=$ | $\mathbf{4 9}$ | $\div 7=\square$ |
| $\square \times 7=$ | 56 | $\div 7=\square$ |
| $\square \times 7=$ | 63 | $\div 7=\square$ |
| $\square \times 7=$ | 70 | $\div 7=\square$ |
| $\square \times 7=$ | 77 | $\div 7=\square$ |
| $\square \times 7=$ | 84 | $\div 7=\square$ |



