## Yr 4 Multiplication and Division Unit 2 (4583)

## Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

## Day 1 Multiplication and division facts Sheet 1

Working towards ARE / Working at ARE
Working towards ARE fill in the yellow squares.
Working at ARE fill in both the yellow squares and the grey squares.

## Day 1 Multiplication and division facts Sheet 2

Greater Depth
Day 2 Matching factors Sheet 1
Working towards ARE / Working at ARE / Greater Depth
Working towards ARE complete section A and do as many as they can of section B. Working at ARE do both sections A and B.
Greater Depth complete sections B and C and aim to complete the challenge.
Day 3 Finding factors Sheet 1
Working towards ARE
Day 37 Finding factors Sheet 2
Working at ARE / Greater Depth
Greater Depth must complete the challenge.

## Multiplication and division facts

Complete the multiplication grid:

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

Challenge
Use the grid to complete these division facts:
$\square \div 5=8$
$42 \div \square=7$
$11=\square \div 12$
$36 \div \square=4$
$9=\square \div 12$
$110 \div 11=\square$

## Multiplication and division facts

Complete the multiplication grid:

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 |  |  |  |  |
| 3 |  |  |  | 15 |  |  |  |  | 30 | 33 |  |
| 4 | 8 |  |  | 20 |  |  |  |  | 40 |  |  |
| 5 | 10 | 15 |  | 25 | 30 | 35 | 40 | 45 | 50 | 55 |  |
| 6 |  |  |  |  |  |  |  | 54 |  |  |  |
| 7 |  |  |  | 35 |  |  |  |  | 70 |  |  |
| 8 | 16 |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 24 |  |  |  |  |  |  |  |  |  |  |

Challenge
Use the grid to complete these division facts:
$\square \div 5=8$
$42 \div \square=7$
$11=\square \div 12$
$36 \div \square=4$
$9=\square \div 12$
$110 \div 11=\square$

## Matching factors

Match each number to its factors.
Add the number itself to the list of factors,
e.g. 15 has 15 as a factor, so 15 must be added to 1,3 and 5 .

## Section A

| 15 | $3,7,1$ |
| :--- | :--- |
| 6 | $2,3,1$ |
| 21 | $3,1,5$ |
| 10 | $2,4,3,6,12,8,1$ |
| 12 | $1,5,2$ |
| 24 | $2,3,4,1,6$ |

Section B
22
31
9
36
18
30
2, 1, 6, 9, 3
3. 1

2, 11,1
$5,1,2,3,15,6,10$
1
$1,4,2,18,9,3,6,12$

## Section C

$$
34
$$

1, 4, 2
4
16
39
48
40
2, 17, 1
3, 2, 4, 8, 12, 6, 16, 1, 24
4, 2, 1, 5, 10, 8, 20
3, 1, 13
8,4,1,2

## Challenge

Which has more factors: 99 or 100 or 101? Guess then test!

## Finding factors

## Sheet 1

Write the factors of each number.
The first one is done for you.


## Challenge

Draw your own diagram for the factors of 24 and 29. Predict which will have more factors?

## Finding factors

## Sheet 2

Write the factors of each number.
Work through them systematically.
The first one is done for you.


## Challenge

Draw your own boxes for the factors of 35 and 42 .

## Multiplication and division

## Answers

Day 1 Multiplication and division facts Sheets 1 and 2

| 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 |

Challenge
$40 \div 5=8$
$42 \div 6=7$
$11=132 \div 12$
$36 \div 9=4$
$9=108 \div 12$
$110 \div 11=10$

Day 2 Matching factors Sheet 1

## Section A

15: $1,3,5,15$
6: 1, 2, 3, 6
21: 1, 3, 7, 21
10: 1, 2, 5, 10
12: $1,2,3,4,6,12$
24: $1,2,3,4,6,8,12,24$

## Section B

22: 1, 2, 11, 22
31: 1, 31
9: 1, 3, 9
36: 1, 2, 3, 4, 6, 9, 12, 18, 36
18: 1, 2, 3, 6, 9, 18
30: $1,2,3,5,6,10,15,30$

## Section C

34: 1, 2, 17, 34
4: 1, 2, 4
16: $1,2,4,8,16$
39: 1, 3, 13, 39
48: $1,2,3,4,6,8,12,16,24,48$
40: $1,2,5,8,10,20,40$

## Challenge

100 has more factors than 99 or 101.

## Day 3 Finding factors Sheet 1

Factors of 12 are $1,2,3,4,6,12$
Factors of 20 are 1, 2, 4, 5, 10, 20
Factors of 8 are 1, 2, 4, 8
Factors of 25 are 1, 5, 25
Factors of 30 are $1,2,3,5,6,10,15,30$

## Challenge

Factors of 24 are 1 and 24,2 and 12,3 and 8,4 and 6.

## Answers

## Day 3 Finding factors Sheet 2

Factors of 60 are 1, 2, 3, 4,5,6,10,12,15, 20,30, 60
Factors of 18 are 1, 2, 3, 6, 9, 18
Factors of 72 are $1,2,3,4,6,8,9,12,18,24,36,72$
Factors of 84 are $1,2,3,4,6,7,12,14,21,28,42,84$
Factors of 50 are 1, 2, 5, 10, 25, 50

## Challenge

Factors of 35 are 1 and 35,5 and 7.
Factors of 42 are 1 and 42,2 and 21,3 and 14,6 and 7 .

