

## Yr 5 Multiplication and Division Unit 2 (5381)

### Additional teacher instructions for practice sheets

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

#### Day 1 Carroll diagrams Sheet 1

Working towards ARE

#### Day 1 Carroll diagrams Sheet 2

Working at ARE / Greater Depth

#### Day 2 Finding prime numbers Sheet 1

Working at ARE

#### Day 3 Mental division Sheet 1

Working towards ARE

#### Day 3 Mental division Sheet 2

Working at ARE / Greater Depth

# Carroll Diagrams

## Sheet 1

Work in pairs to write three 3-digit numbers in each section.

	Divisible by 2	Not divisible by 2
Divisible by 5		
Not divisible by 5		

	Divisible by 4	Not divisible by 4
Divisible by 5		
Not divisible by 5		

## Carroll Diagrams Sheet 2

Work in pairs. Write four 3-digit numbers in each section unless it is impossible to do so.  
If it is impossible, explain why.

	Divisible by 4	Not divisible by 4
Divisible by 5		
Not divisible by 5		

	Divisible by 3	Not divisible by 3
Divisible by 9		
Not divisible by 9		

# Finding prime numbers

## Sheet 1

Find the two prime numbers in each set of numbers.

3 4 7 9 10

11 14 15 17 18

21 23 25 27 29

31 33 36 37 38

42 43 46 47 49

# Mental division

## Sheet 1

Division	Answer with remainder	Answer with fraction	Answer as a decimal	Answer as money
Example $42 \div 4$	10 r 2	$10\frac{1}{2}$	10.5	£10.50
1. $25 \div 2$				
2. $31 \div 2$				
3. $14 \div 4$				
4. $22 \div 4$				
5. $13 \div 4$				
6. $45 \div 10$				

## Mental division Sheet 2

Division	Answer with remainder	Answer with fraction	Answer as a decimal	Answer as money
Example $68 \div 8$	8 r 4	$8\frac{1}{2}$	8.5	£8.50
1. $30 \div 4$				
2. $19 \div 4$				
3. $33 \div 6$				
4. $42 \div 8$				
5. $38 \div 8$				
6. $78 \div 10$				
7. $46 \div 5$				
8. $33 \div 5$				

# 5381 Answers

## Day 1 Sheet 1 Carroll diagrams

	Divisible by 2	Not divisible by 2
Divisible by 5	Any numbers ending in 0	Any numbers ending in 5
Not divisible by 5	Any numbers ending in 2, 4, 6 or 8	Any numbers ending in 1, 3, 7 or 9

	Divisible by 4	Not divisible by 4
Divisible by 5	Any numbers ending in 0 and where the last 2 digits form a number divisible by 4 eg 520, 340	Any numbers ending in 5 or 0 but where the last 2 digits <u>do not</u> form a number divisible by 4 eg 230, 115
Not divisible by 5	Any numbers where the last 2 digits form a number divisible by 4 but <u>do not</u> end in 0 eg 324, 516	Any numbers not ending in 5 or 0 and where the last 2 digits do not form a number divisible by 4 eg 333, 118

## Day 1 Sheet 2 Carroll diagrams

	Divisible by 4	Not divisible by 4
Divisible by 5	Any numbers ending in 0 and where the last 2 digits form a number divisible by 4 eg 520, 340	Any numbers ending in 5 or 0 but where the last 2 digits <u>do not</u> form a number divisible by 4 eg 230, 115
Not divisible by 5	Any numbers where the last 2 digits form a number divisible by 4 but <u>do not</u> end in 0 eg 324, 516	Any numbers not ending in 5 or 0 and where the last 2 digits do not form a number divisible by 4 eg 333, 118

	Divisible by 3	Not divisible by 3
Divisible by 9	Any numbers where the sum of the digits is divisible by 3 and by 9 eg 612, 918	None because any number divisible by 9 is also divisible by 3
Not divisible by 9	Any numbers where the sum of the digits is divisible by 3 <u>but not</u> by 9 eg 111, 123, 115	Any numbers where the sum of the digits is <u>not</u> divisible by 3 or 9 eg 241, 652, 268

# 5381 Answers

## Day 2 Finding prime numbers

3, 4, 7, 9, 10  
11, 14, 15, 17, 18  
21, 23, 25, 27, 29  
31, 33, 36, 37, 38  
42, 43, 46, 47, 49

## Day 3 Mental division - Sheet 1

Division	Answer with remainder	Answer with fraction	Answer as a decimal	Answer as money
$25 \div 2$	12 r 1	$12 \frac{1}{2}$	12.5	£12.50
$31 \div 2$	15 r 1	$15 \frac{1}{2}$	15.5	£15.50
$14 \div 4$	3 r 2	$3 \frac{1}{2}$	3.5	£3.50
$22 \div 4$	5 r 2	$5 \frac{1}{2}$	5.5	£5.50
$13 \div 4$	3 r 1	$3 \frac{1}{4}$	3.25	£3.25
$45 \div 10$	4 r 5	$4 \frac{1}{2}$	4.5	£4.50



# 5381 Answers

## Day 3 Mental division - Sheet 2

Division	Answer with remainder	Answer with fraction	Answer as a decimal	Answer as money
$30 \div 4$	7 r 2	$7 \frac{1}{2}$	7.5	£7.50
$19 \div 4$	4 r 3	$4 \frac{3}{4}$	4.75	£4.75
$33 \div 6$	5 r 3	$5 \frac{1}{2}$	5.5	£5.50
$42 \div 8$	5 r 2	$5 \frac{1}{4}$	5.25	£5.25
$38 \div 8$	4 r 6	$4 \frac{3}{4}$	4.75	£4.75
$78 \div 10$	7 r 8	$7 \frac{4}{5}$	7.8	£7.80
$46 \div 5$	9 r 1	$9 \frac{1}{5}$	9.2	£9.20
$33 \div 5$	6 r 3	$6 \frac{3}{5}$	6.6	£6.60