Ν

Mark	schemes		
1.	Award TWO marks for all three numbers correct as shown:		
	• a multiple of 9 2 7 OR 7 2		
	a square number 2 5		
	• a factor of 96 1 2		
	If the answer is incorrect, award ONE mark for two numbers correct.	Up to 2	[2]
2.	1, 2 and 5 Numbers may be given in any order.		[1]
3.	Award TWO marks for the correct answer of 60 AND 90 Numbers may be given in either order.		
	If the answer is incorrect, award ONE mark for:		
	• both numbers correct and one or more additional factors of 180		

• both numbers correct and one number which is not a factor of 180

OR

• one number correct and none incorrect.



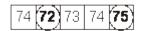
Up to 2

[2]

4.	2 5 10 20		
	OR		
	4 5 10 20		
	Accept the four numbers listed in any order.	U1	[1]
5.	Award TWO marks for the correct answer of 8010		
	If the answer is incorrect, award ONE mark for evidence of appropriate method, eg:		
	• 8000 ÷ 45 = wrong number then wrong number rounded to the nearest whole number		
	Accept 178 for TWO marks Accept for ONE mark 7965 OR 177 as evidence of appropriate method		
	OR		
	 a 'trial and improvement' method, eg 150 x 45 = 6750 200 x 45 = 9000 175 x 45 = 7875 		
	A 'trial and improvement' method must show evidence of improvement.		
	Answer need not be obtained for the award of ONE mark.	Up to 2	[2]
6.	Any three-digit number that is a multiple of 9,eg:		
	If correct, the sum of the digits will be 9 or 18.		
	If boxes are blank, accept answer elsewhere on the page.		[1]

7.

Two numbers circled as shown:



1

An explanation which recognises that 1003 is not a multiple of 3, eg:

- 'Because 1003 is not divisible by 3'
- 'Because 1003 is not a multiple of 3'
- 'Because 1003 is not in the 3 times table'
- 'Because I divided 1003 by 3 and there was a remainder'
- 'Because 1003 + 3 has a decimal answer'
- 'Because 1 + 0 + 0 + 3 = 4, and 4 is not a multiple of 3'
- 'Because 1003 has a digital sum of 4'
- 'Because 1002 is the nearest in the 3 times table'
- 'Because 1000 is not divisible by 3'
- 'Because 999 is divisible by 3'.

Do not award the mark if additional incorrect numbers are circled. Accept alternative unambiguous indications, eg ticks, crosses. No mark is awarded for circling 'No' alone.

Do not accept vague or arbitrary explanations, eg:

- 'Because 1003 ends in 3'
- 'Because 1003 is in the third column'
- 'Because if you keep going in 3s you will go past it'.

If 'Yes' is circled but a correct unambiguous explanation is given, then award the mark.

U1

[2]

8. Award **TWO** marks for the correct answer of 378

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, eg:

366 369 372 375 378 381

364 371 378 385

OR

Factorisation/calculator method, eg

$$7 \times 3 = 21$$

$$21 \times 18$$

Answer need not be obtained for the award of **ONE** mark.

Up to 2 U1

[2]

9.

Any 3-difit number that is a multiple of 14, eg:



Any acceptable answers will be even numbers which divide by 7

Do not accept '0' in the hundreds box.

Only three digit numbers are acceptable.

[1]