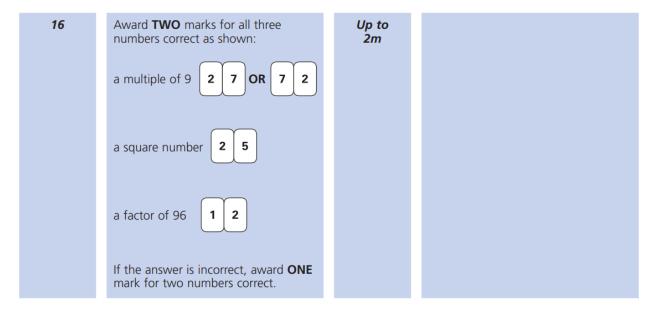
Multiples - Answers

Key Stage 2: 2003 Paper A

1.



Key Stage 2: 2004 Paper B

1.

No mark is awarded for circling 'No' 6 An explanation which recognises that 1m a multiple of 5 can end in 0 as well as 5, eg U1) Do not accept vague or arbitrary 'Because 10 is a multiple of 5'; answers, eg 'Because it can end in 0'; 'Because not all multiples of 5 'Because some numbers end in 0'. end in 5'. If 'Yes' is circled but a correct, unambiguous explanation is given, then award the mark.

2	One of the following triples: 11, 12, 17	1m	Accept alternative unambiguous indications, eg ticks, crosses. Do not award the mark if fewer or more than three numbers are circled.
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Key Stage 2: 2006 Paper B

13a	Any odd numbered multiple of 10, ie 10 OR 30 OR 50 OR 70 OR 90 OR any number ending with any of the pairs of digits above.	1m	
13b	An explanation which recognises that all multiples of 20 are also multiples of 10, eg: "Because all the numbers in the 20 times table are also in the 10 times table' "Because all multiples of 20 are multiples of 10' "Because 20 is in the 10 times table' "All multiples of 20 go in box A because 10 goes into them' "20 is a multiple of both 20 and 10, and so is 40, 60, etc' "Because if it's not a multiple of 10, it can't be a multiple of 20' "Because if it is a multiple of 20, it has to be a multiple of 10' "Because 10 is a factor of 20'.	1m (U1)	Do not accept vague or arbitrary explanations, eg: ■ 'Because 40 is a multiple of 10' ■ 'Because they would be in box A instead' ■ 'Because all the multiples of 10 are multiples of 20' ■ 'Because 10 is a multiple of 20'.

Key Stage 2: 2007 Paper A

1.

15a

A multiple of 12 which ends in '8', eg 48 **OR** 108 **OR** 168 **OR** 228 **OR** 288

15b

An explanation which recognises that an odd number cannot be a multiple of 4, eg:

- 'A multiple of 4 cannot be odd'
- 'All multiples of 4 are even'
- 'An odd number cannot be a multiple of 4'
- 'Multiples of 4 must end in 0, 2, 4, 6 or 8'
- '4, 8, 12, 16, 20, 24 don't end in 3'.

1m

1m

(U1)

Do not accept vague or incomplete explanations, eg:

- '3 is not a multiple of 4'
- '3 is too small'
- '4 is even and 3 is an odd number'
- '13, 23, 33 and 43 are not multiples of 4'
- 'A number which ends in 3 cannot be a multiple of 4'
- '3 isn't in the 4 times table'
- '4 doesn't go into any number that ends in 3'.

Key Stage 2: 2008 Paper B

1.

9

Diagram completed as shown:

	multiples of 9	not multiples of 9
even	72 54	56 84
not even	63 45	49 75

1m

Accept recognisable misspellings.

Accept 'odd' for 'not even'.

Accept alternative unambiguous indications, eg lines drawn from the labels to the appropriate parts of the diagram.

22

Award TWO marks for the correct answer of 8010

If the answer is incorrect, award ONE mark for evidence of appropriate method, eq:

■ 8000 ÷ 45 = wrong number then wrong number rounded to the nearest whole number

OR

a 'trial and improvement' method,

 $150 \times 45 = 6750$

 $200 \times 45 = 9000$

 $175 \times 45 = 7875$

Up to 2m



Accept 178 for TWO marks.

Accept for ONE mark 7965 OR 177 as evidence of appropriate method.

A 'trial and improvement' method must show evidence of improvement.

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

Key Stage 2: 2009 Paper A

1.

An explanation which gives a counter-example to illustrate that not all numbers ending in 4 are multiples of 4, eg:

- '14 is not a multiple of 4'
- '4, 24 and 44 are multiples of 4, but not 14 and 34'
- '14 or 34 don't work'
- '54'

OR

an explanation which recognises that only numbers ending in 4 which have an even number of tens are multiples of 4, eg:

- It has to have an even number of 10s as well, like 20 or 40'
- '14, 24, 34, 44, 54, 64 only half of them are'
- '4 doesn't go into 10 so 14 isn't'.

1m

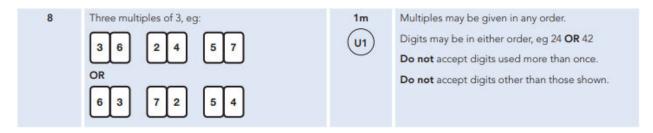
No mark is awarded for circling 'No' alone.

Do not accept vague or incomplete explanations, eg:

- 'Some numbers end in a 4 but aren't multiples
- '16 doesn't end in 4'
- 'Not all multiples of 4 end in 4'
- '24 is a multiple of 4 but the next one isn't'
- '4, 8, 12, 16, 20, 24 etc'.

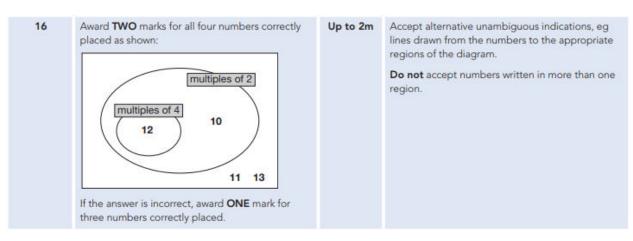
If 'Yes' is circled but a correct, unambiguous explanation is given, then award the mark.





Key Stage 2: 2012 Paper A

1.



Key Stage 2: 2013 Paper B

24	Award TWO marks for the correct answer of 378	Up to 2m	
	If the answer is incorrect, award ONE mark for evidence of an appropriate method, eg:	(U1)	Answer need not be obtained for the award or ONE mark.
	a 366 369 372 375 378 381		
	364 371 378 385		
	OR		
	■ Factorisation/calculator method, eg		
	7 × 3 = 21		
	21 × 18		

13	Award TWO marks for the correct answer as shown: 51 52 50 48 49	Up to 2m	
	If the answer is incorrect, award ONE mark for 4 true statements with no number repeated (within those 4), eg:		Do not accept numbers other than those given.
	48 OR (blank) 52 52 50 50 51 48 49 49		(Multiple of 3 can be 48 OR 51) (Multiple of 4 can be 48 OR 52)

Key Stage 2: 2016 Paper 2 Reasoning - Sample

7	Award TWO marks for three rows completed correctly as shown: 50 120 OR 140 OR 160 OR 180 210 OR 240 OR 270 320 OR 360	Up to 2m	
	If the answer is incorrect, award ONE mark for two rows correct.		

Key Stage 2: 2016 Paper 3 Reasoning - Sample

1.

1	Award TWO marks for three boxes completed correctly, e.g.		Up to 2m	Accept more than one correct multiple in any box.	
		multiple of 5	not a multiple of 5		Do not accept any box containing a correct multiple and an incorrect number.
	multiple of 3	30	3, 6, 9 etc		
	not a multiple of 3	5, 10, 20 etc	1, 2, 4, 7 etc		
	If the answer is incorrect, award ONE mark for at least two boxes completed correctly.				

Key Stage 2: 2016 Paper 2 Reasoning

1.

14	24 AND 48 only	1m	Numbers may be given in either order.
1.4	24 AILD 40 OILLY		realibors may be given in cities order.

Key Stage 2: 2017 Paper 3 Reasoning

3	95 × 6 OR 96 × 5	1m	