

**Q1.**

Jack says,

Explain why Jack is **not** correct.

1 mark

**Q2.**

In the circles, write a multiple that belongs to each set.

One has been done for you.

2 marks

**Q3.**

Here are six digit cards.

Use **all six** digit cards to make three multiples of 3

1 mark

**Q4.**

Here are five number cards.

Use each card **once** to make every statement below correct.

2 marks

**Q5.**

Here is a diagram for sorting numbers.

Write **one number** in each box.

One is done for you.

	multiple of 5	not a multiple of 5
multiple of 3	30	
not a multiple of 3		

2 marks

**Q6.**

Write **all** the common multiples of 3 and 8 that are **less than 50**

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1 mark

**Q7.**

The numbers in this sequence increase by the same amount each time.

Write the missing numbers.

2 marks

**Q8.**

Chen uses these digit cards.

She makes a 2-digit number and a 1-digit number.

She multiplies them together.

Her answer is a **multiple of 10**

What could Chen's multiplication be?

1 mark

**Mark schemes**

**Q1.**

Award **ONE** mark for an explanation that recognises that 32 is not a multiple of 3, e.g.

- 32 is not in the 3x table
- $32 \div 3 = 10 \text{ r } 2$  or 10.66 (which are not whole numbers)
- if you count in multiples of 3 from 0, you won't get 32
- $3 + 2 = 5$ , 5 is not a multiple of 3 so he is wrong.

**OR**

For a description that includes one or both of the multiples of 3 either side of 32, e.g.

- if you do  $10 \times 3 = 30$  and  $11 \times 3 = 33$  there is no 32
- $10 \times 3 = 30$  and 32 is 2 away.

**Do not** accept responses that restate the question, e.g. Jack is not correct because if you multiply 3 by any whole number you will not get 32.

**Do not** accept vague or incomplete explanations, e.g.

- If you multiply by 3 you will get 30, not 32
- 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33
- 32 is not a factor of 3

**Do not** accept explanations which include incorrect mathematics or incorrect information relevant to the explanation.

[1]

## Q2.

Award **TWO** marks for three rows completed correctly as shown:

If the answer is incorrect, award **ONE** mark for two rows correct.

Up to 2

[2]

## Q3.

Three multiples of 3, eg:

**OR**

*Multiples may be given in any order.*

*Digits may be in either order, eg 24 **OR** 42*

**Do not** accept digits used more than once.

**Do not** accept digits other than those shown.

U1

[1]

## Q4.

Award **TWO** marks for the correct answer as shown:

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.

*(Multiple of 3 can be 48 **OR** 51)*

*(Multiple of 4 can be 48 **OR** 52)*

Up to 2  
U1

[2]

**Q5.**

Award **TWO** marks for three boxes completed correctly, e.g:

	multiple of 5	<b>not a multiple of 5</b>
multiple of 3	30	<b>3, 6, 9 etc</b>
<b>not a multiple of 3</b>	<b>5, 10, 20 etc</b>	<b>1, 2, 4, 7 etc</b>

If the answer is incorrect, award **ONE** mark for at least two boxes completed correctly.

*Accept more than one correct multiple in any box.*

***Do not** accept any box containing a correct multiple and an incorrect number.*

Up to 2

[2]

**Q6.**

24 **AND** 48 only

*Numbers may be given in either order.*

[1]

**Q7.**

Award **TWO** marks for three correct numbers, as shown:

<b>35</b>	42	49	<b>56</b>	63	<b>70</b>
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Award **ONE** mark for two numbers correctly placed.

Up to 2m

[2]

**Q8.**

95 × 6 **OR** 96 × 5

[1]