

Key Stage 2

Reasoning: Number (A)

First name						
Middle name						
Last name						
Date of birth	Day		Month		Year	
School name						
DFE number						

1

Write either $<$, $>$, or $=$ in the boxes below to make the sentences correct.

a) 520 5.2×100

b) $5.2 \div 10$ 0.52

c) $520 \div 100$ 5.2

d) 0.52×10 $520 \div 100$

4 marks

2

Write the missing numbers to make these sentences correct.

a) $0.73 \times$ $= 730$

b) $48 \div$ $= 0.48$

3 marks

- a) The numbers in this sequence **increase** by 35 each time.

Write the three missing numbers.

	321	356		
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- b) The numbers in this sequence **decrease** by 125 each time.

Write the three missing numbers.

	1,170	1,045		
--	-------	-------	--	--

- c) The numbers in this sequence **increase** by the same amount each time.

Write the three missing numbers.

	8	20		
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- d) The numbers in this sequence **decrease** by the same amount each time.

Find the three missing numbers.

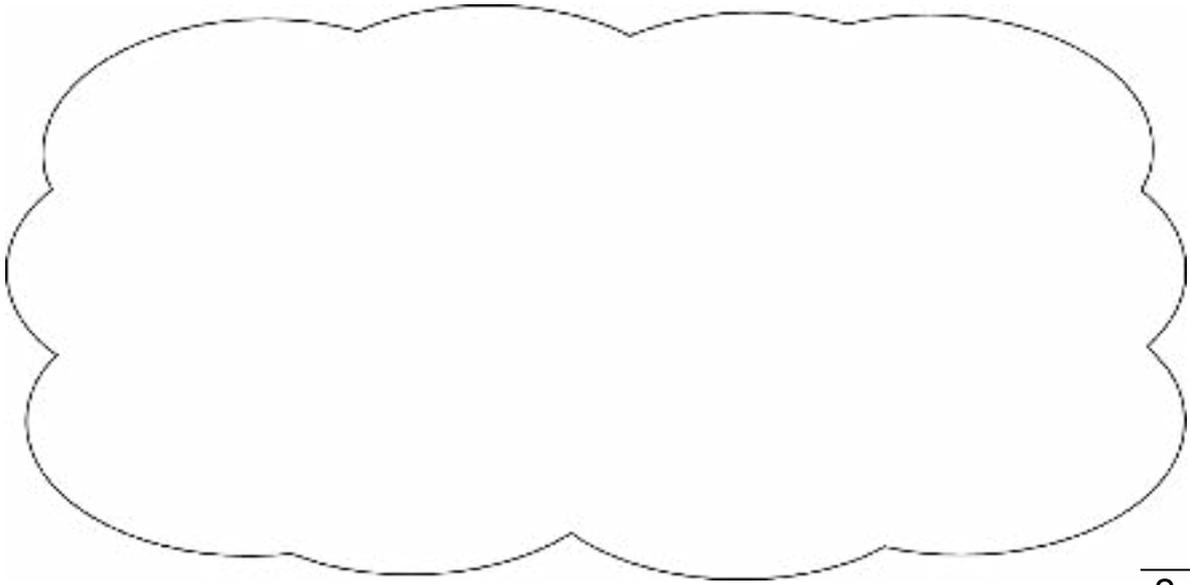
55		25		
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4

a) Circle the **prime** number in this list.

63 65 67

b) Explain how you know the other numbers are **not** prime.



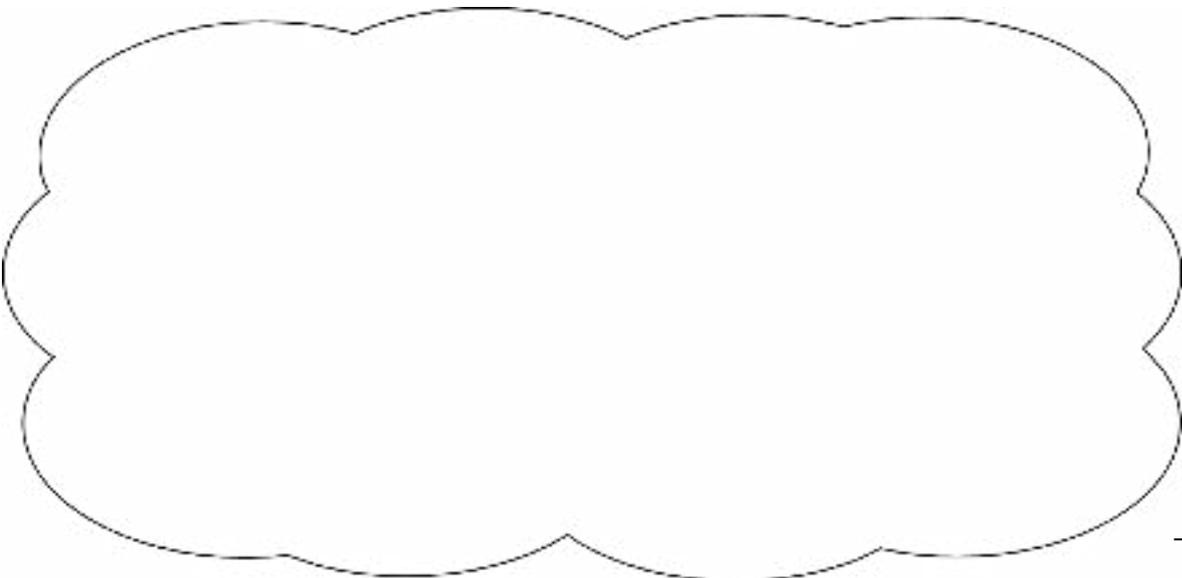
2 marks

5

b) Circle the **square** number in this list.

529 160 248

b) Explain how you know the other numbers are **not** square.



2 marks

6

a) In the grid there are four multiplications.

Fill in the **three** missing whole numbers.

6	x	8	=	<input type="text"/>
x		x		
<input type="text"/>	x	<input type="text"/>	=	27
=		=		
54		24		

2 marks

b) In the grid there are four multiplications.

Fill in the **five** missing whole numbers.

<input type="text"/>	x	<input type="text"/>	=	28
x		x		
<input type="text"/>	x	<input type="text"/>	=	30
=		=		
<input type="text"/>		35		

3 marks

7

a) Here is a multiplication grid.

Put whole numbers in the boxes to make it correct.

x	<input type="text"/>	<input type="text"/>
8	32	40
<input type="text"/>	12	15

2 marks

b) Here is a multiplication grid.

Put whole numbers in the boxes to make it correct.

x	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	54
4	24	36

3 marks

Write the missing numbers to make the calculations correct.

(a) $6 + 2 \times 2 - \square = 7$

(b) $20 - 2 \times \square = 4$

(c) $23 - 3 \times 2 - \square = 7$

(d) $10 - 20 \div \square = 0$

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- **Percentages**
- **Multiplication and division**
- **Angles**
- **Word problems**
- **Ratio and proportion**
- **Transformations**
- **Money**
- **Mass**
- **Length**
- **Area and perimeter, and more.**

The website also has *videos of me working through each paper*, so that once pupils have completed the paper they can get help with any questions that they got wrong, and watch a worked-example of how to solve it correctly!

I'd love to have your feedback, so if you have any requests for papers or questions, just let me know.

Thanks - Andrew Jeffrey



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