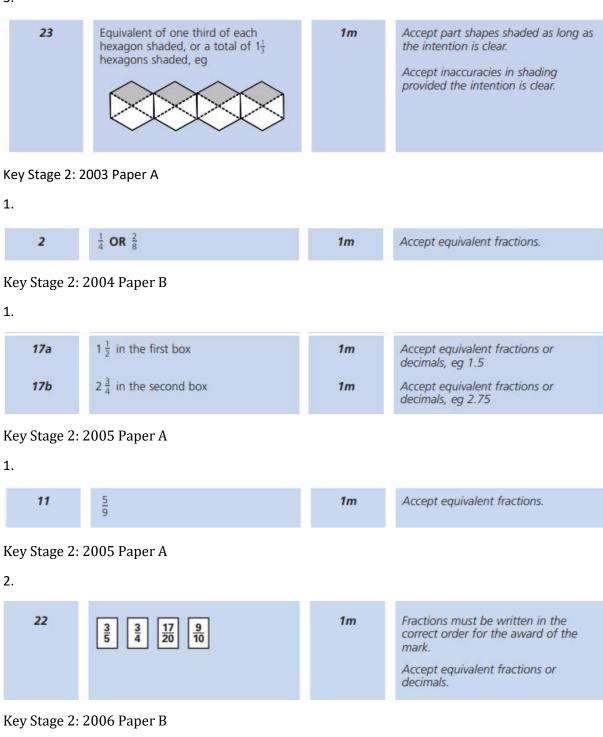
Fractions - Answers

367.5 **OR** 367½

19

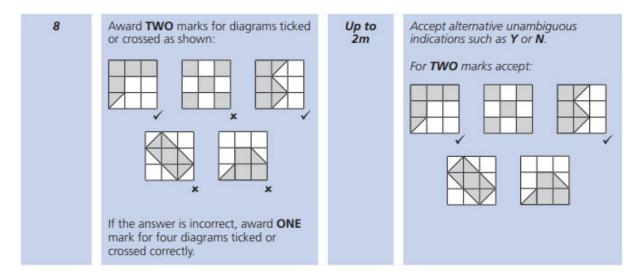
Key Stage 2: 2003 Paper A 1. 9a Tom 4 Nadia 28 1m 9b 1m Key Stage 2: 2003 Paper A 2. 18 13 1m 35 (U1) Key Stage 2: 2003 Paper A 3. 24 64 1m Key Stage 2: 2003 Paper B 1. Award **TWO** marks for both fractions Up to 2m 12 Accept fractions written in either correct as shown: OR If the answer is incorrect, award ONE mark for one fraction correct. Key Stage 2: 2003 Paper B 2.

1m



1.

14 £11.25



Key Stage 2: 2007 Paper B

2.

<u>1</u> 6	1m	Accept equivalent fractions, eg $\frac{4}{24}$
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Key Stage 2: 2008 Paper A

1.

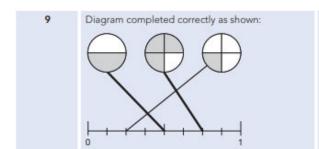
19a	1/3	1m	Accept equivalent fractions or decimals.
196	19	1m (U1)	Accept equivalent fractions or decimals.

Key Stage 2: 2008 Paper B



Key Stage 2: 2009 Paper A

1.



1m Do not award the mark if additional incorrect lines are drawn.

Lines need not touch the shapes or number line provided the intended accuracy is clear.

Key Stage 2: 2009 Paper B

2.



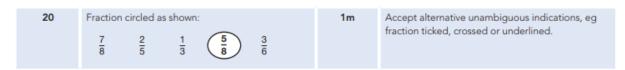
Key Stage 2: 2010 Paper A

1.

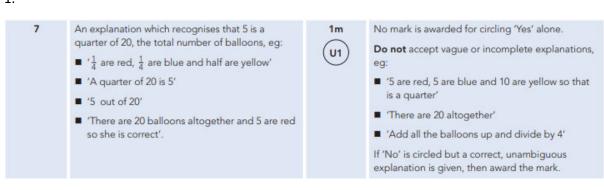


Key Stage 2: 2010 Paper A

2.

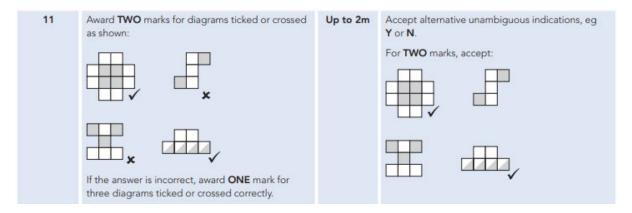


Key Stage 2: 2010 Paper B



Key Stage 2: 2010 Paper B

2.



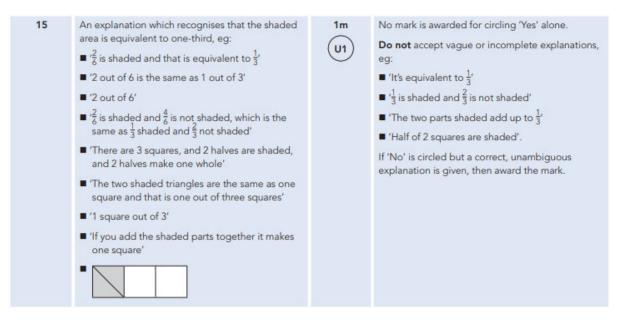
Key Stage 2: 2010 Paper B

3.

|--|

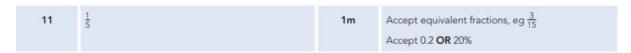
Key Stage 2: 2011 Paper A

1.

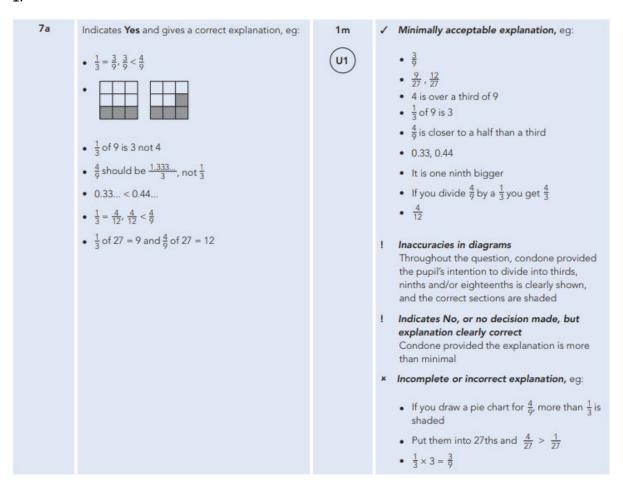


Key Stage 2: 2011 Paper B

8 3/4	1m	Accept equivalent fractions or decimals.
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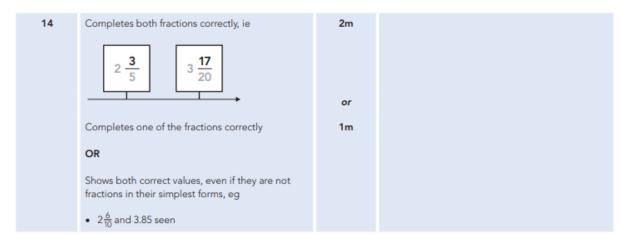
Key Stage 2: 2012 Paper A L6



7b Indicates No and gives a correct explanation, eg: 1m Minimally acceptable explanation, eg: Equal U1 · The fractions are equal; if you multiply the numerator and denominator by the same Equivalent number the fractions are equivalent Same • 4 is half of 8 • $\frac{4}{9} \times 2 = \frac{8}{9} \text{ not } \frac{8}{18}$
 4 is half of 8 is
 • $\frac{8}{18} \div 2 = \frac{4}{18}$ which is $\frac{2}{9}$ not $\frac{4}{9}$ You only double the top number To double the fraction, you don't double the numerator and the denominator, you just · You only halve the top number double the numerator Indicates Yes, or no decision made, but · To halve the fraction, you don't halve the explanation clearly correct denominator, only the numerator Condone provided the explanation is more than minimal × Incomplete explanation, eg . If you double the top and the bottom number of $\frac{4}{9}$, you get $\frac{8}{18}$

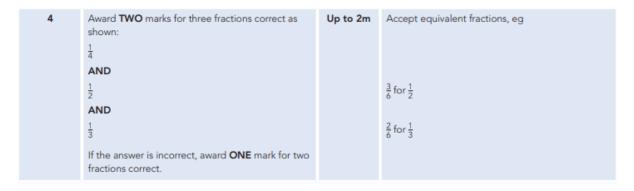
Key Stage 2: 2012 Paper A L6

2.



Key Stage 2: 2012 Paper A



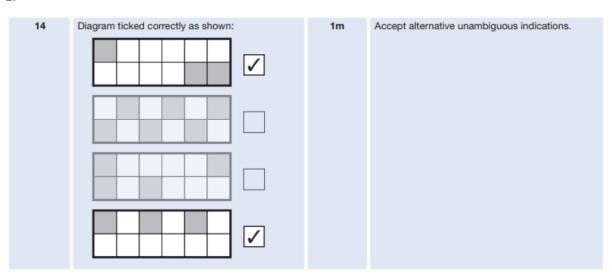


Key Stage 2: 2013 Paper A L6

1.

2m	✓ Equivalent fractions, decimals or percentages
or 1m	! 30 with no % sign Accept for 1m as evidence of a correct method ! $\frac{1.5}{5}$ or $\frac{1\frac{1}{2}}{5}$ Accept for 1m as evidence of a correct method (incorrect notation for $\frac{3}{5} \div 2$) X Conceptual errors seen, eg: • $\frac{1}{5} + \frac{1}{5} = \frac{2}{10}$ • $\frac{1}{5} + \frac{1}{5} = 5\% + 5\% = 10\%$
	or

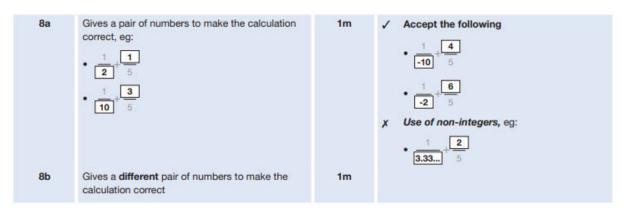
Key Stage 2: 2013 Paper A



20	Award TWO marks for the correct answer of 300	Up to 2m	Answer must be in grams for the award of TWO marks.
			Do not accept 0.3kg.
	If the answer is incorrect, award ONE mark for evidence of appropriate working, eg $1\frac{1}{2}$ kg = 1500g		Working must be carried through to reach an answer for the award of ONE mark.
	1.2 kg = 1200g		
	1500g – 1200g = wrong answer		

Key Stage 2: 2014 Paper A L6

1.



Key Stage 2: 2014 Paper B L6

8	Gives a correct explanation that converts the given fractions to decimals or fractions with a common denominator / numerator or percentages, eg: • $\frac{4}{7} = \frac{36}{63}$ but $\frac{5}{9} = \frac{35}{63}$ • $0.57142 > 0.55555$ • Because there is a $\frac{1}{63}$ difference between the two	1m	 ✓ For ⁴/₇ accept: 0.57() or 57(%) ✓ For ⁵/₉ accept: 0.56 or 0.55() or 56(%) or 55(%) ✓ Minimally acceptable explanations, eg: ³⁶/₆₃ 0.56 0.57 X Incomplete explanations that fail to converbe both fractions to a common format, eg: ⁴/₇ is 0.57 so it is bigger 9ths are smaller than 7ths and there is one one more 9th than 7th so ⁴/₇ is greater ! Condone method of conversion incorrectly expressed in an otherwise correct explanation, eg: ⁴/₇ × 9 = ³⁶/₆₃
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Key Stage 2: 2014 Paper A

1.

6a	C AND E	1m	Letters may be given in either order.
6b	В	1m	

Key Stage 2: 2014 Paper A

2.

18a	$6\frac{1}{4}$	1m	Accept equivalent fractions. Do not accept $5\frac{5}{4}$
18b	1 1/2	1m	Accept equivalent fractions, eg $1\frac{2}{4}, \frac{3}{2}, 1.5, 150\%$

Key Stage 2: 2015 Paper A L6

1.



Key Stage 2: 2015 Paper B

1.

10a	Any two triangles in the shape shaded.	1m	Accept alternative unambiguous indications.
10b	Any two more triangles in the shape shaded.	1m	Accept alternative unambiguous indications.

Key Stage 2: Paper 1 Arithmetic - Sample

1.

Qu	Requirement	Mark	Additional guidance
2	<u>5</u> 7	1 mark	

Key Stage 2: Paper 2 and 3 Reasoning - Sample

Qu	Requirement	Mark	Additional guidance
9	<u>5</u> 12	1 mark	

Key Stage 2: 2016 Paper 1 Arithmetic - Sample

1.

10	<u>3</u> 5	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.6
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Question 10 commentary: As the question is expressed in common fractions, pupils should give their answer as a common fraction. An equivalent fraction such as $\frac{6}{10}$ would also be awarded the mark. Since this fraction does have an exact decimal equivalent, the mark scheme also allows this to be awarded the mark.

Key Stage 2: 2016 Paper 1 Arithmetic - Sample

2.

19	<u>5</u> 9	1m	Accept equivalent fractions or the exact decimal equivalent, e.g. 0.5 (accept any unambiguous indication of the recurring digit). Do not accept rounded or truncated
			decimals.

Question 19 commentary: This question is also expressed in common fractions and pupils should give their answer as a common fraction. This fraction answer does have a recurring decimal equivalent which would also be creditworthy. However, a decimal answer truncated to 0.5 or rounded to 0.56 for example would not be awarded the mark.

Key Stage 2: 2016 Paper 1 Arithmetic - Sample

3.

26	1/32	1m	Accept equivalent fractions or the exact decimal equivalent, e.g. 0.03125
			Do not accept rounded or truncated decimals.

Key Stage 2: 2016 Paper 1 Arithmetic - Sample

4.

30	$25\frac{1}{2}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 25.5

Key Stage 2: 2016 Paper 1 Arithmetic - Sample

32	1/5	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.2

33	<u>19</u> 20	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.95
			Do not accept rounded or truncated decimals.

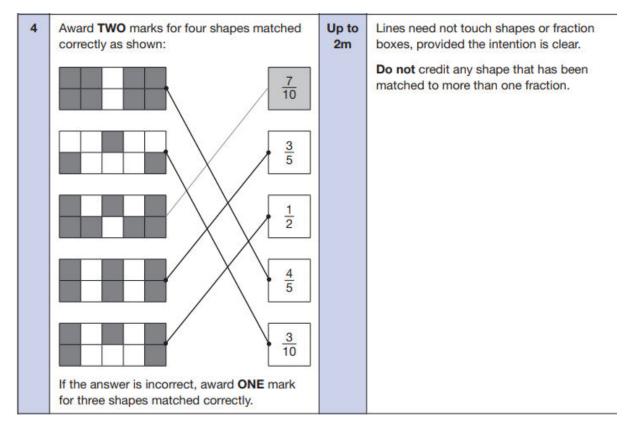
Key Stage 2: 2016 Paper 1 Arithmetic - Sample

7.

35	1 5 8	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 1.625
			Do not accept rounded or truncated decimals.

Key Stage 2: 2016 Paper 1 Arithmetic - Sample

36	3 8	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.375
			Do not accept rounded or truncated decimals.



Key Stage 2: 2016 Paper 3 Reasoning - Sample

13	Award ONE mark for any of the following:	1m	Accept equivalent fractions correctly ordered, e.g.
	$\frac{7}{16} < \frac{6}{12} < \frac{5}{8}$ OR $\frac{7}{16} < \frac{6}{12} < \frac{3}{4}$		$\frac{21}{48} < \frac{24}{48} < \frac{30}{48}$ $\frac{21}{48} < \frac{24}{48} < \frac{36}{48}$
	16 12 4 OR $\frac{7}{16} < \frac{5}{8} < \frac{3}{4}$		$\frac{7}{16} < \frac{10}{16} < \frac{12}{16}$ $\frac{12}{24} < \frac{15}{24} < \frac{18}{24}$
	OR $\frac{6}{12} < \frac{5}{8} < \frac{3}{4}$		

Key Stage 2: 2016 Paper 1 Arithmetic

1.

24	1 $\frac{2}{7}$ OR $\frac{9}{7}$	1m	Accept equivalent fractions or the exact decimal equivalent, e.g. 1.285714 (accept any unambiguous indication of the recurring digits). Do not accept rounded or truncated decimals.
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Key Stage 2: 2016 Paper 1 Arithmetic

2.

27	$\frac{1}{4}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.25

Key Stage 2: 2016 Paper 1 Arithmetic

3.

31	$2\frac{1}{10}$ OR $\frac{21}{10}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 2.1
			Do not accept 1 11 10

Key Stage 2: 2016 Paper 1 Arithmetic

4.

33	1/5	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.2
			decimal equivalent, e.g. o.z

Key Stage 2: 2016 Paper 1 Arithmetic

5.

-	_			
	34	56	1m	

Key Stage 2: 2016 Paper 1 Arithmetic

35	11 12	1m	Accept equivalent fractions or the exact decimal equivalent e.g. 0.916 (accept any unambiguous indication of the recurring digit).
			Do not accept rounded or truncated decimals.

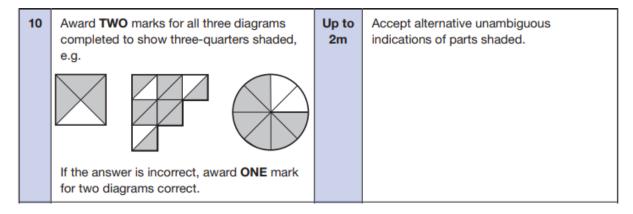
Key Stage 2: 2016 Paper 2 Reasoning

1.

7a	2 8 4	1m	
7b	3 = 12 = 6	1m	

Key Stage 2: 2016 Paper 2 Reasoning

2.



Key Stage 2: 2017 Paper 1 Arithmetic

1.

3	$1\frac{1}{6}$ OR $\frac{7}{6}$	1m	Accept equivalent mixed numbers, fractions or an exact decimal equivalent, e.g. 1.16 (accept any unambiguous indication of the recurring digit). Do not accept rounded or truncated decimals.
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Key Stage 2: 2017 Paper 1 Arithmetic

2.

15	<u>2</u> 5	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. $\frac{12}{30}$ or 0.4
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Key Stage 2: 2017 Paper 1 Arithmetic

23	3/8	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.375
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Key Stage 2: 2017 Paper 1 Arithmetic

4.

26	11 20	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.55
	20		

Key Stage 2: 2017 Paper 1 Arithmetic

5.

27	1/5	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. $\frac{4}{20}$ or 0.2
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Key Stage 2: 2017 Paper 1 Arithmetic

6.

	_			
2	8	<u>5</u>	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.3125

Key Stage 2: 2017 Paper 1 Arithmetic

7.

30	$3\frac{1}{6}$ OR $\frac{19}{6}$	Accept equivalent mixed numbers, fractions or an exact decimal equivalent, e.g. 3.16 (accept any unambiguous indication of the recurring digit). Do not accept rounded or truncated decimals.
		Do not accept $2\frac{7}{6}$

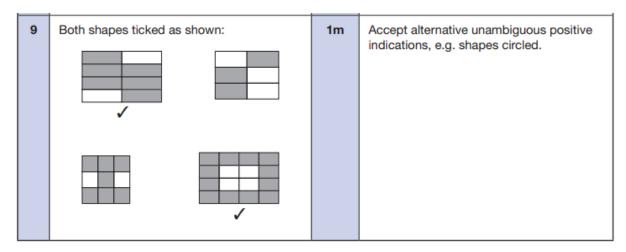
Key Stage 2: 2017 Paper 1 Arithmetic

8.

32	5 24	Accept equivalent fractions or an exact decimal equivalent, e.g. $\frac{10}{48}$ or 0.2083 (accept any unambiguous indication of the recurring digit).
		Do not accept rounded or truncated decimals.

Key Stage 2: 2017 Paper 1 Arithmetic

35 85 ½	1m	Accept equivalent fractions or an exact decimal equivalent e.g. $\frac{171}{2}$ or 85.5
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23 Award **TWO** marks for the correct answer of $\frac{7}{12}$

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

•
$$\frac{1}{4} + \frac{1}{6} =$$

$$\frac{3}{12} + \frac{2}{12} = \frac{5}{12}$$

$$1 - \frac{5}{12}$$

OR

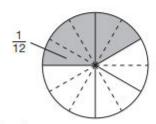
$$\frac{1}{4} + \frac{1}{6} + \frac{1}{6}$$

OR

•
$$1-\frac{1}{4}-\frac{1}{6}$$

OR

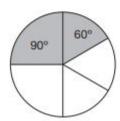
•



$$\frac{3}{12} + \frac{4}{12}$$

OR

.



$$90^{\circ} + 60^{\circ} = 150^{\circ}$$

$$1 - \frac{150}{360}$$

Up to 2m

Accept equivalent fractions or an exact decimal equivalent, e.g. 0.583

Accept for **ONE** mark an answer between 0.58 and 0.59 inclusive.

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

Key Stage 2: 2018 Paper 1 Arithmetic

1.

2	<u>5</u> 11	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. $0.\overline{45}$ (accept any unambiguous indication of the recurring digits).
			Do not accept rounded or truncated decimals.

Key Stage 2: 2018 Paper 1 Arithmetic

2.

17 <u>6</u> 7	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.857142 (accept any unambiguous indication of the recurring digits). Do not accept rounded or truncated decimals.
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Key Stage 2: 2018 Paper 1 Arithmetic

3.

19	750	1m	
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Key Stage 2: 2018 Paper 1 Arithmetic

4.

24	7 10	1m	Accept equivalent fractions or the exact decimal equivalent, e.g. 0.7
----	------	----	--

Key Stage 2: 2018 Paper 1 Arithmetic

5.

$25 2\frac{1}{2}$	Accept equivalent mixed numbers, fractions or the exact decimal equivalent, e.g. 2.5
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Key Stage 2: 2018 Paper 1 Arithmetic

28	2/3	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.6 (accept any unambiguous indication of the recurring digits).
			Do not accept rounded or truncated decimals.

Key Stage 2: 2018 Paper 1 Arithmetic

7.

31	1/8	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.125
----	-----	----	---

Key Stage 2: 2018 Paper 1 Arithmetic

8.

33	60	1m	Do not accept unsimplified equivalent
			fractions unless accompanied by 60 or $\frac{60}{1}$

Key Stage 2: 2018 Paper 1 Arithmetic

9.

35 2 17/21 OR 59/21	Accept equivalent mixe fractions or the exact de.g. 2.809523 (accept a indication of the recurring Do not accept rounded decimals.	ecimal equivalent, ny unambiguous ng digits).
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Key Stage 2: 2018 Paper 2 Reasoning

1.

4	Both values correct, as shown:	1m	Both values must be correct for the award of ONE mark.
	$\frac{3}{4} = \frac{9}{12} = \frac{18}{24}$		Of ONE Mark.

Key Stage 2: 2018 Paper 2 Reasoning

13	Correc	Correct number circled, as shown:				1m	Accept alternative unambiguous positive
	<u>67</u> 8	<u>48</u> 8	<u>62</u> 8	(<u>55</u> 8	<u>76</u> 8		indication of the correct answer, e.g. fraction ticked.

Key Stage 2: 2018 Paper 3 Reasoning

1.

16	Award TWO marks for the correct answer of 184	Up to 2m	Answer need not be obtained for the award of ONE mark.
	If the answer is incorrect, award ONE mark for:		
	sight of 92		
	OR		
	evidence of appropriate method, e.g.		
	• $\frac{1}{3} \times 276 = 92$		
	92 × 2 =		
	• 276 ÷ 3 = 92 276 - 92 =		

Key Stage 2: 2018 Paper 3 Reasoning

2.

18	Award TWO marks for the correct answer of $\frac{1}{12}$ or an equivalent fraction. If the answer is incorrect, award ONE mark for: • sight of $\frac{11}{12}$ OR • evidence of appropriate method, e.g. • $\frac{2}{3} + \frac{1}{4}$ • $\frac{8}{12} + \frac{3}{12} = \frac{10}{12}$ (error) 1 - $\frac{10}{12}$ = • 1 - $\frac{2}{3} - \frac{1}{4}$ =	Up to 2m	Answer need not be obtained for the award of ONE mark.
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Key Stage 2: 2019 Paper 1 Arithmetic

22	<u>6</u> 7	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.857142 (accept any unambiguous indication of the recurring digits). Do not accept rounded or truncated decimals.
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Key Stage 2: 2019 Paper 1 Arithmetic

2.

24	19 20	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.95
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Key Stage 2: 2019 Paper 1 Arithmetic

3.

26	3 3 10 OR	1m	Accept equivalent mixed numbers, fractions or an exact decimal equivalent, e.g. 3.3
	33 10		

Key Stage 2: 2019 Paper 1 Arithmetic

4.

28	<u>23</u> 36	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.638 (accept any unambiguous indication of the recurring digits).
		Do not accept rounded or truncated decimals.

Key Stage 2: 2019 Paper 1 Arithmetic

5.

31	29	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.2 (accept any unambiguous indication of the recurring digits). Do not accept rounded or truncated decimals.
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Key Stage 2: 2019 Paper 1 Arithmetic

32	$1\frac{3}{4}$ OR	1m	Accept equivalent mixed numbers, fractions or an exact decimal equivalent, e.g. 1.75
	7/4		

34	17 ½ OR	1m	Accept equivalent mixed numbers, fractions or an exact decimal equivalent, e.g. 17.5
	$\frac{70}{4}$ OR $\frac{35}{2}$		

Key Stage 2: 2019 Paper 1 Arithmetic

8.

35	450	1m	

Key Stage 2: 2019 Paper 2 Reasoning

Award TWO marks for two boxes ticked correctly, as shown:	Up to 2m	Accept alternative unambiguous positive indication of the correct answer, e.g. Y.
1/20		
<u>20</u>		
$\frac{1}{5}$		
$\frac{3}{15}$		
2 100		
If the answer is incorrect, award ONE mark for:		
 only one box ticked correctly and no incorrect boxes ticked two boxes ticked correctly and one incorrect box ticked. 		

18	Award TWO marks for three boxes ticked correctly, as shown:	Up to 2m	Accept alternative unambiguous positive indication of the correct answer, e.g. Y.
	$\frac{1}{2}$		
	$\frac{2}{8}$		
	3/4		
	7 ✓		
	<u>24</u>		
	Award ONE mark for:		
	 only two boxes ticked correctly and no incorrect boxes ticked 		
	OR		
	 three boxes ticked correctly and one incorrect box ticked. 		