Perimeters - Answers

Key Stage 2: 2003 Paper A
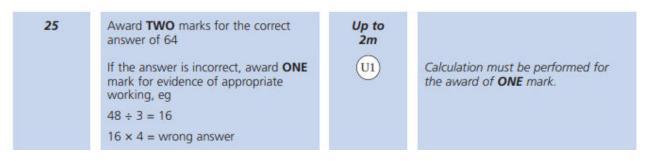
1.

20	Award **TWO** marks for two different answers as shown:
	
	  5 and 2 **OR** 2 and 5
	
	AND
	
	  3.5 and 3.5
	
	If the answer is incorrect, award **ONE** mark for any one of the above answers.
		Up to 2m	The two answers may be given in either order.
			
			Do not accept '5 and 2' **AND** '2 and 5' for two marks.

Key Stage 2: 2004 Paper A

1.

15	90	1m	

Key Stage 2: 2004 Paper A

2.

25	Award **TWO** marks for the correct answer of 64 If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg 48 ÷ 3 = 16 16 × 4 = wrong answer	Up to 2m (U1)	Calculation must be performed for the award of **ONE** mark.

Key Stage 2: 2004 Paper B

1.

22	Award **TWO** marks for the correct answer of 12 If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg 7.2 ÷ 3 × 5	Up to 2m (U1)	Answer need not be obtained for the award of **ONE** mark. Accept for **ONE** mark 1.2 **OR** 120 as evidence of appropriate method.

Key Stage 2: 2005 Paper B

1.

| 24 | Award **TWO** marks for the correct answer of 26.8cm

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

■ 85 ÷ 2 – 15.7

OR

■ 85 – (15.7 × 2) = wrong answer
 wrong answer ÷ 2

OR

■ 85 – (15.7 × 2) = 53.6 | **Up to 2m** | Award **ONE** mark for an answer of 53.6 **OR** for 53.6 shown with no evidence of an incorrect method.

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

Key Stage 2: 2006 Paper A

1.

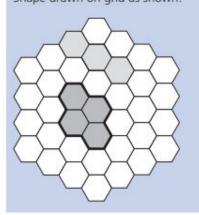| 19 | Award **TWO** marks for the correct answer of 50

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg

15 ÷ 3 = 5

5 × 10 = wrong answer | **Up to 2m**

U1 | Calculation must be performed for the award of **ONE** mark. |

Key Stage 2: 2007 Paper A

1.

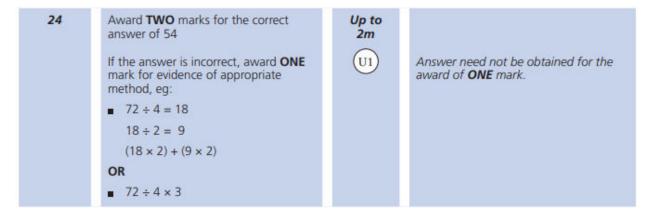| 14 | Shape drawn on grid as shown:

 | **1m** | Accept shape in any position or orientation.

Accept slight inaccuracies in drawing provided the intention is clear.

Accept alternative unambiguous indications of the correct shape provided the intention is clear.

Accept mathematically correct answers involving fractions of a hexagon.

Shape need not be shaded. |

Key Stage 2: 2008 Paper B

1.

24	Award **TWO** marks for the correct answer of 54 If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg: ■ $72 \div 4 = 18$ 　$18 \div 2 = 9$ 　$(18 \times 2) + (9 \times 2)$ **OR** ■ $72 \div 4 \times 3$	*Up to 2m* (U1)	*Answer need not be obtained for the award of* ***ONE*** *mark.*

Key Stage 2: 2009 Paper A

1.

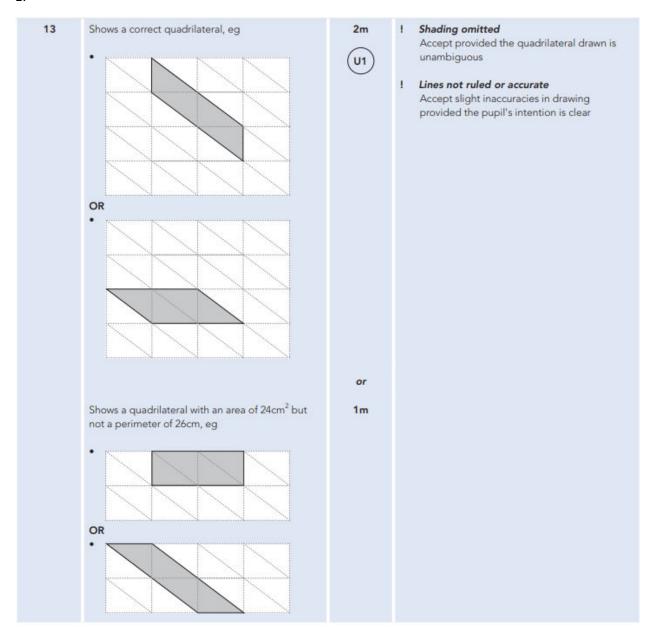| 20a	34	1m	
20b	70	1m	

Key Stage 2: 2010 Paper A

1.

21	Award **TWO** marks for the correct answer of 18 If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg $50 \div 2 = 25$ $25 - 7 = $ wrong answer **OR** $7 \times 2 = 14$ $50 - 14 = 36$ $36 \div 2 = $ wrong answer	Up to 2m	Working must be carried through to reach an answer for the award of **ONE** mark.

Key Stage 2: 2011 Paper A

1.

13a	14	1m	
13b	C	1m	Accept 5

Key Stage 2: 2012 Paper A L6

1.

| 13 | Shows a correct quadrilateral, eg OR Shows a quadrilateral with an area of 24cm² but not a perimeter of 26cm, eg OR | 2m U1 or 1m | ! *Shading omitted* Accept provided the quadrilateral drawn is unambiguous ! *Lines not ruled or accurate* Accept slight inaccuracies in drawing provided the pupil's intention is clear |

Key Stage 2: 2012 Paper A

1.

| 13a | C | | 1m | Accept 18 |
| 13b | D | | 1m | |

Key Stage 2: 2013 Paper A L6

1.

| 3 | Completes all three rows correctly, eg: | 2m | ! | **Measures** |

	rectangle	3cm	**3cm**	**15cm**	**15cm**
	rhombus	9cm	**9cm**	**9cm**	**9cm**
	kite	10cm	**10cm**	**8cm**	**8cm**

See guidance (page 7)

✓ **Side lengths in each row may be given in any order**

✓ **Accept correct values with cm omitted** eg, for the rectangle:

• 15   3   15

or

Completes two rows correctly   **1m**

Key Stage 2: 2013 Paper A

1.

23	Award **TWO** marks for the correct answer of 54	Up to 2m	
	If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg		Working must be carried through to reach an answer for the award of **ONE** mark.
	8 × 4 = 32		
	3 × 4 = 12		
	5 × 2 = 10		
	32 + 12 + 10 = wrong answer		

Key Stage 2: 2014 Paper A L6

1.

2	6.8	2m	✓	**Accept equivalent fractions and decimals**, eg: • $6\frac{4}{5}$ • $\frac{34}{5}$
		or		

	Shows or implies a complete, correct method, eg:
	
	• $5d = 3 \times 10 + 4$
	  $5d = 34$
	  $d = 34 \div 5$
	• $3 \times 10 = 40$ *(error)*
	  $40 + 4 = 44$
	  $44 \div 5 = 8.4$ *(error)*
	• $30 + 4 = 34$
	  $34 \div 5$
		1m	✗	**Incorrect methods**, eg: where the perimeter of the pentagon is treated as being 4cm *less* than the perimeter of the triangle:
				• $30 - 4 = 26$
				  $26 \div 5 = 5.2$

Key Stage 2: 2014 Paper B L6

1.

11	25.7	2m	!	**Measures** See guidance (page 7)
			✓	**Equivalent fractions or decimals**, eg: • $25\frac{7}{10}$
			✓	**Accept 25 or 26** (an answer that has been rounded or truncated)
			✓	**For 2m, use of π other than 3 or 3.14** (the given approximation), ie: • 25.71 • 25.7(...) • 25.5 • $10 + 5\pi$ • $25\frac{5}{7}$
		or		
	15.7 seen *(half the perimeter of the circle, without the straight edge added)* **OR** Shows or implies a complete, correct method, eg: • $\frac{1}{2}(3.14 \times 10) + 10$	1m	✓	**For 1m, use of π other than 3 or 3.14** (the given approximation), ie: • 15.71 • 15.7(...) • 15.5 • 5π • $15\frac{5}{7}$

Key Stage 2: 2014 Paper A

1.

15	Award **TWO** marks for the correct answer of 42	**Up to 2m**	
	If the answer is incorrect award **ONE** mark for evidence of appropriate working, eg:		Working must be carried through to reach an answer for the award of **ONE** mark.
	■ $28 \div 4 = 7$		
	$7 \times 6 =$ wrong answer		
	OR		
	■ $28 \div 2 = 14$		
	$14 + 28 =$ wrong answer		

Key Stage 2: 2015 Paper A L6

1.

11	15	**2m**	
		or	
	6(cm) and 1.5(cm) seen (*the dimensions of the rectangle*)	**1m**	
	OR		
	Shows or implies a complete correct method, eg:		✗ *Confusion between area and perimeter, ie:*
	• $\sqrt{36} = 8$ (*error*) $8 \div 4 = 2$ $2 \times (8 + 2)$		• side of square is $36 \div 4 = 9$ (*error*) $2 \times (9 + 2.25)$
	• $6 \times 6 = 36$ $6 \div 4 = 1.2$ (*error*) $6 + 1.2 + 6 + 1.2$		

Key Stage 2: 2015 Paper B

1.

20	Award **TWO** marks for the correct answer of 72	**Up to 2m**	
	If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg		Working must be carried through to reach an answer for the award of **ONE** mark.
	■ $13 \times 4 = 52$		
	$5 \times 4 = 20$		
	$52 + 20 =$ wrong answer		