

## Maths 2 Answers

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

---

Time: **24 minutes**

Marks: **24 marks**

Comments:

---



## Mark schemes

1

A different rectangle with a perimeter of 18 cm ,  
e.g. 3 cm x 6 cm, 2 cm x 7 cm etc

[1]

2

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

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

$$15 \div 3 = 5$$

$$5 \times 10 = \text{wrong answer}$$

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

Up to 2 (U1)

[2]

3

A

*Accept alternative unambiguous positive indications of the correct triangle, e.g.  $2\frac{1}{2}$  or 2.5.*

[1]

4

Award **TWO** marks for the correct answer of 54

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

$$8 \times 4 = 32$$

$$3 \times 4 = 12$$

$$5 \times 2 = 10$$

$$32 + 12 + 10 = \text{wrong answer}$$

*Working must be carried through to reach an answer for the award of **ONE** mark.*

Up to 2

[2]

5

Award **TWO** marks for the correct answer of 64

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

$$48 \div 3 = 16$$

$$16 \div 4 = \text{wrong answer}$$

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

Up to 2 (U1)

[2]

**6**

Completes all three rows correctly, eg:

- |           |      |      |      |      |
|-----------|------|------|------|------|
| rectangle | 3cm  | 3cm  | 15cm | 15cm |
| rhombus   | 9cm  | 9cm  | 9cm  | 9cm  |
| kite      | 10cm | 10cm | 8cm  | 8cm  |

*! Measures*

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

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

- 15 3 15

2

**or**

Completes two rows correctly

1

**[2]**

**7**

Award **THREE** marks for the correct answer of 14

If the answer is incorrect, award **TWO** marks for:

- sight of 414 as evidence of  $23 \times 18$  completed correctly

**OR**

- evidence of an appropriate method with no more than one arithmetic error, e.g.

$$20 \times 20 = 400$$

$$\begin{array}{r} 23 \\ \times 18 \\ \hline 230 \\ 184 \\ \hline 314 \text{ (error)} \end{array}$$

$$400 - 314 = 86$$

Award **ONE** mark for evidence of an appropriate method.

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

*A misread of a number may affect the award of marks. No marks are awarded if there is more than one misread or if the mathematics is simplified.*

***TWO** marks will be awarded for an appropriate method using the misread number followed through correctly to a final answer.*

***ONE** mark will be awarded for evidence of an appropriate method using the misread number followed through correctly with no more than one arithmetic error.*

Up to 3m

[3]

**8**

20 (cm)

[1]

**9**

Award **TWO** marks for the correct answer of 144

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

- $8 \times 6 = 48$   
 $48 \div 4 = 13$  (error)  
 $13 \times 13 = 169$

**OR**

Award **ONE** mark for:

- evidence for the side length of the square calculated correctly, i.e. 12  
*Answer need not be obtained for the award of **ONE** mark.*

Up to 2m

[2]

**10**

15

2

**or**

6(cm) and 1.5(cm) seen (*the dimensions of the rectangle*)

**OR**

Shows or implies a complete correct method, eg:

- $\sqrt{36} = 8$  (error)  
 $8 \div 4 = 2$   
 $2 \times (8 + 2)$
- $6 \times 6 = 36$   
 $6 \div 4 = 1.2$  (error)  
 $6 + 1.2 + 6 + 1.2$

**Do not accept** confusion between area and perimeter, ie:

- side of square is  $36 \div 4 = 9$  (error)  
 $2 \times (9 + 2.25)$

1

[2]

**11**

Award **THREE** marks for the correct answer of 3076 square metres.

If the answer is incorrect, award **TWO** marks for:

- sight of 9184 as evidence of the multiplication for the first step completed correctly.

OR

- evidence of an appropriate method which contains no more than **ONE** arithmetical error, e.g:

$$\begin{array}{r} 112 \\ \times \underline{82} \\ 8960 \\ \underline{224} \\ 9187 \text{ (error)} \end{array}$$

$$\begin{array}{r} 9187 \\ - \underline{6108} \\ 3079 \end{array}$$

- Award **ONE** mark for evidence of an appropriate method which contains more than **ONE** arithmetical error.

*Do not award any marks if the error is in the place value of the multiplication, e.g. the omission of the final zero when multiplying by tens, e.g.*

$$\begin{array}{r} 112 \\ \times \underline{82} \\ 896 \\ \underline{224} \\ \text{wrong answer} \end{array}$$

**Commentary:** As well as a range of 1 mark and 2 mark questions, one of the questions in a suite of tests may now attract three marks. The solution to a 3 mark question may involve more steps or, as in this example, more complex calculations.

Up to 3m

[3]

12

11

*Accept 11 cm<sup>2</sup>*

[1]

13

(a) 34

1

(b) 70

1

[2]