

Y6 Maths Revision – Part 3

Answers

Mark schemes

Q1.

(a) 163

1

(b) 2

1

[2]

Q2.

4

[1]

Q3.

Award **TWO** marks for the correct answer of 750

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

- $450 \times 2 = 900$
 $2,400 - 900 = 1,500$
 $1,500 \div 2$

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

Up to 2m

[2]

Q4.

Award **TWO** marks for the correct answer of 15

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

- $61 \div 2 = 30.5$
 $30.5 + 0.5 = 31$
 $31 \div 2 = 15.5$
 $15.5 - 0.5 = \text{wrong answer}$

OR

- $61 \div 2 = 30.5$
 $30.5 - 0.5 = 30$ (step error)
 $30 \div 2 = 15$
 $15 - 0.5 = 14.5$ (wrong answer)

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

Q5.

2

1

99

1

[2]

Q6.

An explanation that includes a correct counter example, e.g.

- When you double 10° it is not obtuse
- $2 \times 27^\circ = 54^\circ$
- Double 45° is a right angle not obtuse

OR

An explanation that demonstrates where the statement in the question is not correct, e.g.

- If the acute angle is less than 45° then doubling it will be less than 90° , so it won't be obtuse (more than 90°).

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

- Sometimes it will be acute
- Some acute angles are half an obtuse angle, but not all
- When you double an acute angle, you get a right angle

Do not accept explanations which include incorrect mathematics or incorrect information that is relevant to the explanation, e.g.

- $20^\circ\text{C} \times 2 = 40^\circ\text{C}$
- $20\% \times 2 = 40\%$

[1]

Q7.

Brackets inserted correctly, eg

$$10^2 \div (10 \div 10) \div (10 \div 10) = 100$$

OR

$$10^2 \div [(10 \div 10) \div 10] \div 10 = 100$$

OR

$$(10^2 \div 10) \div [(10 \div 10) \div 10] = 100$$

OR

$$10^2 \div \{10 \div [10 \div (10 \div 10)]\} = 100$$

OR

$$10^2 \div [10 \div (10 \div 10) \div 10] = 100$$

OR

$$10^2 \div [10 \div 10 \div (10 \div 10)] = 100$$

Accept alternative placing of brackets provided the

original expression is unchanged and the answer is mathematically correct.

[1]

Q8.

Award **TWO** marks for the correct answer of 3.75

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

- $60 \div 4 = 15$
- $250 \times 15 = 3750$
- $3750 \text{ ml} \div 1000 =$

OR

- $250 \div 4 = 62.5 \text{ ml per second}$
- $62.5 \times 60 = 3750$
- $3750 \text{ ml} \div 1000 =$

OR

- $60 \div 4 = 15$, so there are 15 lots of 4 seconds in 1 minute so there are 15 bottles per minute.
- There are 4 bottles in 1 litre
- $15 \div 4 =$

*Accept for **TWO** marks, 3,750 ml for final answer in working and the answer box blank **OR** 3,750 in the answer box where the litres has been replaced with millilitres.*

*Accept for **ONE** mark 3,750 litres (l) in the answer box **OR** the final answer in working and answer box blank.*

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

Up to 2m

[2]

Q9.

Award **ONE** mark for two correct answers, as shown:

length =

19 cm

width =

9.1 cm

[1]