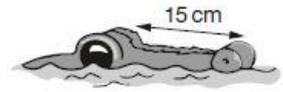


Q1.

The length of an alligator can be estimated by:

- measuring the distance from its eyes to its nose
- then multiplying that distance by 12



Not to scale

What is the **difference** in the estimated lengths of these two alligators?

Show your method

--

cm

2 marks

Q2.

This is Kirsty's recipe for breakfast cereal.

- 50 grams of oats
- 30 grams of raisins
- 40 grams of nuts



If she uses 125 grams of oats, how many grams of raisins does she need?

Show your method

--

g

2 marks

Q3.

Two numbers are in the ratio **4 : 5**

One of the numbers is **60**

There are two possible values for the other number.

What are the two possible values?

--

--

2 marks

Q4.

In a class the ratio of **boys to girls** is **7:4**

There are **9 more boys** than **girls**.

How many **children** are in the class?

Show your method

cm

2 mark

Q5.

Susan mixes red and blue paint to make purple.



2 parts of red paint with **3 parts of blue** paint make **purple**.

Susan has **50 ml of red** and **100 ml of blue**.

What is the **maximum** amount of purple she can make?

Show your method

ml

2 marks

Mark schemes

Q1.

Award **TWO** marks for the correct answer of 30

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

- $17.5 \times 12 = 210$
 $15 \times 12 = 180$
 $210 - 180 =$

OR

- $2.5 \times 12 =$

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

Up to 2m

[2]

Q2.

Award **TWO** marks for the correct answer of 75

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

- $125 \div 50 = 2.5$
 $2.5 \times 30 =$ wrong answer

OR

- 50g oats 30g raisins
25g oats 15g raisins ($\div 2$)
125g oats wrong answer ($\times 5$)

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

Up to 2

[2]

Q3.

75 and 48 in either order

! Ratios given in each box, ie:

48 : 60 and 60 : 75

Condone, for 2m or 1m

2

or

Gives one correct value

1

[2]

Q4.

Award **TWO** marks for the correct answer of 33.

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

$$7 + 4 = 11; 7 - 4 = 3;$$

$$9 \div 3 = 3$$
$$3 \times 11$$

OR an extension of ratio sequence, eg

7:4 14:8 21:12

Calculation need not be completed for the award of the mark.

Up to 2

[2]

Q5.

Award **TWO** marks for the correct answer of 125 ml.

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

- $50 + (3 \times 50 \div 2)$
- $50 = 2 \times 25$
 $3 \times 25 = 75$
 $50 + 75$

Accept answer without units.

Up to 2

[2]