

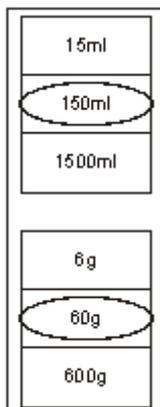
Mark scheme – Summer 2, week 4

Q1. 68 (ml) **OR** 0.068 (l)

Do not accept incorrect units, e.g. 68 l **OR** 0.068 ml.

[1]

Q2. Amounts circled as shown:

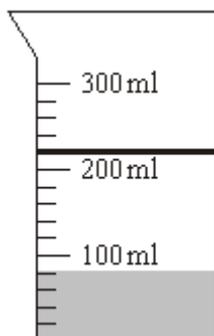


Both amounts must be correct for the award of the mark.

Accept alternative unambiguous indications such as underlining or ticking.

[1]

Q3. Level of water indicated as shown:



Accept answers in the range 215 ml to 225 ml inclusive.

Accept: alternative unambiguous indications of the correct level, provided the intention is clear, eg container shaded.

[1]

Q4.
1.50 **OR** 1.5

Accept $1\frac{1}{2}$ m
Accept 150 cm
Do not accept 150 m

[1]

Q5. Award **TWO** marks for a correct answer of 275

OR

an answer in the range from 270 to 280 inclusive.

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

- $150 + 175 = 325$
 $600 - 325 =$

OR

- $600 - 150 - 165$ (*error*) =

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

Accept a reading in the range 170 to 180 ml inclusive for the second jug.

*At least one of the measurements must be correct for the award of **ONE** mark.*

Up to 2m

[2]

Q6.

Award **TWO** marks for the correct answer of 300

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

$$1\frac{1}{2} \text{ kg} = 1500 \text{ g}$$

$$1.2 \text{ kg} = 1200 \text{ g}$$

$$1500 \text{ g} - 1200 \text{ g} = \text{wrong answer}$$

*Answer must be in grams for the award of **TWO** marks.*

***Do not** accept 0.3 kg.*

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

Up to 2

[2]

Q7.

Award **TWO** marks for the correct answer of 12

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

$$6 \text{ litres} = 6000 \text{ ml}$$

$$6000 \text{ ml} \div 500 \text{ ml}$$

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

Up to 2

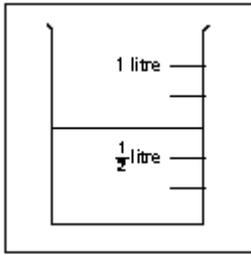
[2]

Q8.

700

[1]

Q9.



[1]

Q10.

Award **TWO** marks for the table completed as shown:

grams	kilograms
3500	3.5
1200	1.2
250	0.25
30	0.03

If the answer is incorrect, award **ONE** mark for two of the three numbers completed correctly.

For 0.25, accept .25 **OR** $\frac{1}{4}$

Up to 2

[2]

Q11.

Award **THREE** marks for the correct answer of 1.7 (litres) or 1,700 (ml).

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

- sight of 6,300 **OR** 6.3 as evidence of the multiplication completed correctly

OR

- evidence of an appropriate complete method with no more than one error, e.g.
 - $28 \times 225 = 6,300$
8 litres = 8,000 ml
 $8,000 - 6,300 = 2,700$ (error)

Award **ONE** mark for evidence of an appropriate method, e.g.

- $8,000 - 28 \times 225 =$

Unit need not be given for the award of **THREE** marks. An incorrect unit is treated as one error.

A misread 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 complete method with the misread number followed through correctly.

ONE mark will be awarded for evidence of an appropriate complete method with the misread number followed through correctly with one arithmetic error.

If the answer reached in the first part of the calculation gives an answer greater than 8(L) or 8000(ml) and the smaller value is then subtracted from it, **ONE** mark may still be available.

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

Up to 3m

[3]

Q12. Answer in the range 800 to 950 inclusive.

Accept estimates in the range 0.80 l to 0.95 l.

[1]

Q13. (a) 400

Answer must be in grams.

1

(b) 1200 g **OR** 1.2 kg

OR

for finding the correct difference between 1.6 kg and the answer given for (a).

Accept 1200 **OR** 1.2 **OR** 1 kg 200 g

1

[2]

Q14. Award **TWO** marks for the correct answer of 250

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

- $150 \times 5 = 750$
- $1000 - 750 =$ wrong answer

Calculation must be performed for the award of ONE mark.

Up to 2

[2]

Q15.

250

Do not accept $\frac{1}{4}$ litre.

[1]

Q16.

$\frac{1}{2}$ or equivalent

[1]

Q17.

$\frac{3}{8}$ m or equivalent

[1]

Q18.

$1\frac{5}{6}$ or equivalent

[1]

Q19.

(a) $6\frac{1}{4}$

Accept equivalent fractions.

Do not accept $5\frac{5}{4}$

1

(b) $1\frac{1}{2}$

Accept equivalent fractions, eg

$1\frac{2}{4}$, $\frac{3}{2}$, 1.5, 150%

1

[2]

Q20.

30

[1]

Q21.

$\frac{3}{5}$ or equivalent

1

$\frac{1}{3}$ or equivalent

1

[2]

Q22.

Award **TWO** marks for the correct answer of $\frac{3}{16}$

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

$$1 - \frac{1}{4} = \frac{3}{4}$$

$$\frac{3}{4} \div 4 =$$

Do not accept unconventional fractions e.g. $\frac{0.75}{4}$

[2]

Q23.

$$\frac{5}{12}$$

[1]

Q24.

$$3$$

1

$$\frac{10}{13} \text{ or equivalent}$$

1

[2]