Monday - Shadow Book Pg. 65 – Qs. 1-4

Chapter 32: Capacity

1. Match the containers to their most likely capacities.

(a)  (b)  (c)  (d)  (e)  (f) 

5ml	1l	140l	2l	250ml	10l

2. Use the information from Question 1 to answer these.

(a) How much orange juice would there be in a pack of six cartons?

(b) If it took five minutes to fill the bath, how many litres per minute were pouring in?

(c) If you opened a milk carton and put five teaspoons from it into a cup of tea, how much would be left in the carton?

(d) If one raindrop (1ml) lands in the watering can each second for a full hour, how much more liquid is needed to fill the watering can?

(e) How many 300ml cups of tea can be made from a full kettle of water?

3. Fill in the missing litres and millilitres.

(a) 4·07l = ____ l ____ ml	(b) 8ml = ____ l	(c) 6l 53ml = ____ l
(d) 5l 5ml = ____ ml	(e) 8,093ml = ____ l	(f) 9·8l = ____ ml
(g) 3·27l = ____ l ____ ml	(h) 6l 7ml = ____ ml	(i) 3,507ml = ____ l ____ ml

4. Fill in the missing amounts.

(a) $3\frac{6}{1000}$l = ____ ml	(b) $5\frac{1}{4}$l = ____ ml	(c) $6\frac{3}{4}$l = ____ l ____ ml
(d) 5·23l = $5\frac{\square}{\square}$l	(e) $9\frac{8}{1000}$l = ____ l	(f) 2·2l = $\frac{\square}{\square}$l
(g) $1\frac{14}{100}$l = ____ l	(h) ____ l = $3\frac{430}{1000}$l	(i) ____ ml = $10\frac{1}{2}$l

Tuesday - Shadow Book Pg. 65 – Qs. 5-7

5. True ✓ or false ✗?

(a) $\frac{2}{5}$l = 250ml ☐	(b) 25ml = 0·25l ☐	(c) 3l 6ml = $3\frac{6}{1000}$l ☐
(d) 0·08l = $\frac{80}{100}$l ☐	(e) 3l 45ml = 3·45l ☐	(f) 6·8l = 6l 800ml ☐
(g) $5\frac{3}{4}$l = 5,075ml ☐	(h) 9,800ml = $9\frac{4}{5}$l ☐	(i) $6\frac{30}{1000}$l = 6,030ml ☐

6. How many ml must be **added** to each of these to make full litres only?

(a) $2\frac{1}{2}$l _____ ml	(b) 3l 350ml _____ ml	(c) 4l 180ml _____ ml
(d) $6\frac{3}{10}$l _____ ml	(e) $7\frac{3}{4}$l _____ ml	(f) 2,625ml _____ ml

7. If the following amounts were drawn from a 9·5l can, how much would be left each time?

(a) 1·5l _____ l	(b) 7·25l _____ l	(c) 8·637l _____ l
(d) $6\frac{1}{1000}$l _____ l	(e) $4\frac{750}{1000}$l _____ l	(f) 5·450l _____ l

Based on *Busy at Maths 5*, pages 170–171

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Wednesday - Shadow Book Pg. 66 – Qs. 1-3

Capacity

1. How many ml are in each of these containers?

(a) 

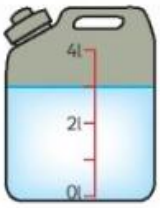
_____ ml

(b) 

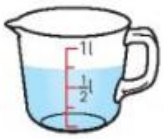
_____ ml

(c) 

_____ ml

(d) 

_____ ml

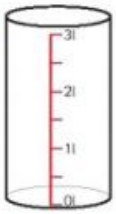
(e) 

_____ ml

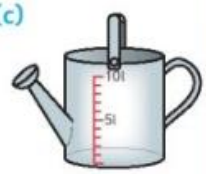
2. Draw the correct amount of liquid in each of these containers.

(a) 

0·25l

(b) 

1,500ml

(c) 

8l

(d) 

$\frac{1}{5}$l

(e) 

0·3l

3. Add or subtract the following.

(a) 0·983l + 4·627l	(b) 4·075l − 1·177l	(c) 3l 746ml + 1l 555ml	(d) 7l 10ml − 3l 51ml	(e) 8·095l − 2·706l
_____	_____	_____	_____	_____

(f) $3\frac{3}{4}$l − 2·6l	(g) 7·36l + 2,435ml	(h) $6\frac{4}{5}$l − 2,093ml
(i) 10l 45ml − 2·93l	(j) $4\frac{7}{100}$l + $6\frac{98}{1000}$l	(k) 20l 5ml − 8·025l

Thursday - Shadow Book Pg. 66 – Qs. 4-7

4. Use decimal form to multiply or divide the following.

(a) 3l 95ml × 5	(b) $\frac{3}{4}$ l × 12	(c) $8\frac{3}{5}$ l ÷ 4
(d) 6·093l × 23	(e) 3·807l ÷ 9	(f) $6\frac{1}{2}$ l ÷ 25
(g) 3l 88ml × 19	(h) $1\frac{3}{8}$ l ÷ 5	(i) 837ml × 36

5. Arrange these capacities in order, starting with **smallest**.

(a) 1·5l, 1l 5ml, $1\frac{1}{5}$ l, 1·05l, 1·505l	(b) $2\frac{3}{4}$ l, 2l 700ml, $2\frac{4}{5}$ l, 2·85l
(c) 6·06l, $6\frac{6}{1000}$ l, 6,600ml, $6\frac{66}{100}$ l	(d) 10l 300ml, $10\frac{33}{1000}$ l, $10\frac{1}{4}$ l, 10·003l
(e) 0·07l, 700ml, $\frac{7}{1000}$ l, $\frac{707}{1000}$ l	(f) $\frac{1}{4}$ l, 330ml, $\frac{1}{5}$ l, $\frac{3}{10}$ l

6. 

David drank 500ml from a 4l container. Rónan drank 650ml, Jack drank $\frac{2}{5}$ l and Sam drank 1·35l. How many litres and millilitres were left in the container? _____ l _____ ml

7. From a 3l smoothie container Ava drank 600ml, Emma drank 450ml, Esther drank 0·75l and Elaine drank $\frac{4}{5}$ l. Suzie drank the rest. How much did Suzie drink? _____ l

Based on *Busy at Maths 5*, pages 172–174

Friday - Shadow Book Pg. 67 – Qs. 1-3

Capacity

1. Work out the cost per litre for these.

(a) 

(b) 

$1\frac{1}{2}$ l

(c) 225l 

(d) 600ml 

(e) $1\frac{1}{4}$ l 

Price	€33·00	€1·74	€0·87	€1·89	€2·35
Per litre					

2. Now answer these questions based on the information above:

(a) If a restaurant uses 30 litres of washing-up liquid a year, how much would they save by buying the better value bottle? €_____

(b) A taxi driver uses 3 litres of petrol per day. How much will he spend on fuel if he works 23 days in June? €_____

(c) An athletics club bought 25 of the small cartons of orange juice for an event. How much would they have saved if they had bought the big cartons instead? €_____

3. This is how many litres of petrol each vehicle uses when traveling 100km:


smart car
3·2l/100km


SUV
6·4l/100km


hatchback car
4·5l/100km


saloon car
5·1l/100km


hybrid car
3·4l/100km

(a) Use your calculator to work out how far each car could travel on one litre of petrol (answer in km and metres, and to two decimal places).

(b) If each vehicle travelled 12,000km in a year and petrol costs an average of €1·80 per litre, work out how much each owner spent on fuel.

(c) If you drove 386km from Cork to Donegal, use a calculator to work out how much more petrol you would use with the car that uses the most fuel instead of the car that uses the least.

(d) Aidan and Catriona got a lift to school every day in an SUV. If the journey is 3km each way and they have 183 days in a school year, use your calculator to work out how much they would save if they cycled instead (assume one litre of petrol costs €1·80).