39 A furniture shop is offering these items for sale.

£463

4 for £218

£799

(a) A hotel buys 25 sofas for their rooms. What is the total cost?

£19 975

(b) A new café owner buys 2 dining tables and 12 chairs.
How much does he need to pay?

£1580

Section C

41 The timetable below shows part of the train schedule from London Fields to Enfield Town.

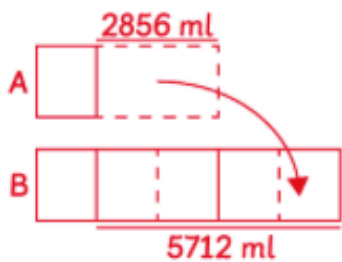| London Fields to Enfield Town					
London Fields		18:28	18:37		18:52
Hackney Downs	18:25	18:20	18:39	18:40	18:54
Clapton	18:28			18:43	
Rectory Road		18:33	18:42		18:57
Edmonton Green		18:47	18:56		19:11
Enfield Town		18:56	19:05		19:20

Hannah took the 18:28 train from London Fields to meet Emma at Enfield Town. Emma took the 18:42 train from Rectory Road. How much longer was Hannah's journey than Emma's?

Hannah's journey was 5 minutes longer than Emma's.

42 There was an equal amount of water in container A and B. After 2856 ml of water was transferred from container A to container B, container B had 5 times more water than container A had.

(a) How much water is there in the two containers altogether?

5712 ml ÷ 4 = 1428

1428 x 6 = 8568

There is 8568 ml of water in the two containers altogether.

(b) How much water was there in each container to begin with?

2856 ml + 1428 ml = 4284 ml

There was 4284 ml of water in each container to begin with.

43 Mr Smith wants to decorate the hall with red and green lights for Christmas. He wants to have 5 red lights between any 2 green lights.

(a) If Mr Smith uses a total of 500 lights, how many green lights would he need?

498 (83 green + 415 red)

grrrrr grrrrr .... grrrrr	g

1 light left over

1 green

$500 \div 6 = 83$ remainder 2

$83 + 1 = 84$ green lights

(b) If he uses 280 red lights, how many green lights will be in the hall?

There are 280 red lights. For every 5 red lights there is 1 green light (with a possible green light at the end).

$280 \div 5 = 56$

$56 + 1 = 57$

This means there will be 57 green lights in the hall.

44 Ruby is making party bags for her birthday party. She buys 48 boxes containing 24 bars of chocolate each and 96 boxes containing 16 lollies each. Ruby then packs different assortments of 9 bars of chocolate and lollies into each party bag. How many party bags will she have?

48 × 24 = 1152 chocolate bars
96 × 16 = 1536 lollies

1152 + 1536 = 2688
2688 ÷ 9 = 298 remainder 6

Ruby will have 298 party bags with 6 chocolate bars/lollies left over.

45 A bag of rice weighs $6\frac{3}{10}$ kg. It is $2\frac{3}{5}$ kg heavier than a bag of beans. What is the total weight of the two bags?

$6\frac{3}{10}$ kg – $2\frac{3}{5}$ kg = $3\frac{7}{10}$ kg

$6\frac{3}{10}$ kg + $3\frac{7}{10}$ kg = 10 kg

The total weight of the two bags is 10 kg.

CHALLENGE ⭐

Rosie has £300 in her bank account.

Tommy has 100 times more than Rosie in his bank account.

How much more money does Tommy have than Rosie?

Whitney has £1,020 in her bank account.

Tommy has £120 in his bank account.

Whitney says,

> I have ten times more money than you

CHALLENGE ⭐

Tommy has answered a question.

Here is his working out.

$$600 \div 25$$
$$600 \div 2 = 300$$
$$300 \div 5 = 60$$
$$600 \div 25 = \underline{60}$$

Is he correct?

Explain your answer.

Answers below:

CHALLENGE ⭐

Rosie has £300 in her bank account. Tommy has 100 times more than Rosie in his bank account. How much more money does Tommy have than Rosie?	Tommy has £30,000 Tommy has £29,700 more than Rosie.
Whitney has £1,020 in her bank account. Tommy has £120 in his bank account. Whitney says, I have ten times more money than you	Whitney is incorrect, she would need to have £1,200 if this were the case (Or Tommy would need to be £102).

CHALLENGE ⭐

Tommy has answered a question.

Here is his working out.

$$600 \div 25$$
$$600 \div 2 = 300$$
$$300 \div 5 = 60$$
$$600 \div 25 = \underline{60}$$

Is he correct?

Explain your answer.

Tommy is not correct as he has partitioned 25 incorrectly.

He could have divided by 5 twice.

The correct answer should be 24