

1.

(a) (i) Write down in words the number 67 530.

..... [1]

(ii) Write down in figures the number eight thousand and thirty four.

..... [1]

(b) Using the following list of numbers,

25 13 31 64 40 49 39 11 42

write down

(i) two numbers that add up to 80,

..... [1]

(ii) the number that is the difference between 59 and 70,

..... [1]

(iii) a multiple of 6,

..... [1]

(iv) a factor of 100,

..... [1]

(v) the square of 8,

..... [1]

(vi) an odd number that is not a prime number nor a perfect square.

..... [1]

(c) Write 6753

(i) correct to the nearest 100,

..... [1]

(ii) correct to the nearest 1000.

..... [1]

SJHS

2.

(a) (i) Write down, in figures, the number three million, four hundred and eleven thousand and two. [1]

.....

(ii) Write down, in words, the number 72 065. [1]

.....

(b) Using the following list of numbers

17    6    53    40    63    36    39    81

write down

(i) two numbers that add up to 80, [1]

.....

(ii) the number that is the difference between 67 and 28, [1]

.....

(iii) a multiple of 7, [1]

.....

(iv) the answer when 48 is divided by 8, [1]

.....

(v) the square of 9. [1]

.....

(c) Write down a factor of 96 which is between 10 and 20. [1]

.....

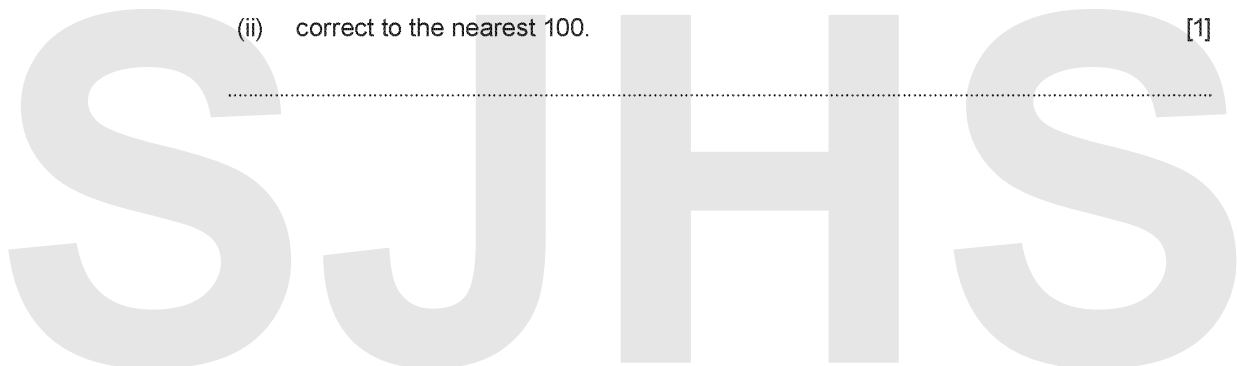
(d) Write 6571

(i) correct to the nearest 10, [1]

.....

(ii) correct to the nearest 100. [1]

.....



**3.**

- (a) (i) The population of a town is nineteen thousand, five hundred and twenty six.  
Write this in figures.

.....  
[1]

- (ii) The population of another town is 30 054.  
Write this number in words.

.....  
[1]

- (b) Using only the numbers in the following list,

32      29      48      57      38      47      35

write down

- (i) two numbers that have a sum of 70,

.....  
[1]

- (ii) the number which is the difference between 84 and 27,

.....  
[1]

- (iii) a multiple of 7.

.....  
[1]

- (c) Write 36 826

- (i) correct to the nearest 100,

.....  
[1]

- (ii) correct to the nearest 10.

.....  
[1]

- (d) Using only numbers between 40 and 50, write down

- (i) all the numbers that have 6 as a factor,

.....  
[2]

- (ii) a square number.

.....  
[1]

S J H S

4.

Susan bought some Christmas items in the January sales.

(a) Complete her bill.

[4]

Item	Cost
5 packs of Christmas cards at £1.20 per pack	£
4.5 metres of tinsel at 82p per metre	£
40 tree decorations at £1 for 10 decorations	£
Total	£

(b) A special offer gives one free roll of Christmas wrapping paper with every £5 spent.  
How many free rolls of wrapping paper will Susan receive?

[1]

.....

.....

(c) Christmas tree lights were priced at £11.98 before the sale.  
In the sale, the price is reduced by 50%.

How much will Susan have to pay if she buys the Christmas tree lights in the sale? [2]

.....

.....

.....

SJHS

5.

Jamie was buying fireworks for a bonfire party.

(a) Complete his bill.

[3]

Items	Cost
2 "Shining Star" rocket selection packs at £24.99 each	£
5 packs of sparklers at 89 pence per pack	£
1 "Fantastic Fireworks" selection box	£
Total	£88.43

.....

.....

(b)



When Jamie was in the shop buying fireworks, he noticed the special deal shown above. He wanted to get a free Roman Candle. He decided to buy some extra fireworks that cost £4 each. What was the least number of these fireworks he needed to buy to get a free Roman Candle? [2]

.....

.....

.....

S J H S

6.

- (a) Hilary visits a garden centre.  
She buys a wheelbarrow, 5 large pots and 12 bags of compost.

Complete the following table to show her bill for these items.

ITEM	COST
1 wheelbarrow	£76.99
5 large pots @ £6.35 each	
12 bags of compost @ £3 per bag	
TOTAL	

[3]

- (b) She earns 1 point on her store card for every £10 she spends.

How many points will be added to Hilary's store card after paying the above bill?

..... [1]

7.

Find the value of

- (a)  $\frac{43.73 \times 26.23}{523.9 - 26.74}$ , giving your answer correct to three significant figures,

..... [2]

- (b)  $\sqrt{(43^3 + 52)}$ , giving your answer correct to two decimal places.

..... [2]

8.

Write 57.3826

- (a) correct to the nearest whole number, [1]

.....

- (b) correct to one decimal place. [1]

.....

S J H S

9.

Annya lives in Sheffield.  
 She needed to be at a meeting at a hotel in Leeds at 3:00 p.m.

In planning her journey, she allowed herself 45 minutes to travel from the station at Leeds to the hotel.

She wanted to catch the latest possible train from Sheffield to be sure of arriving at the hotel in Leeds in time.

Part of the train timetable she used is shown below.

Sheffield (depart)	12:28	13:21	13:36	14:17	14:28
Leeds (arrival)	13:59	14:02	14:47	15:18	15:59

Annya caught the train she wanted, and the train arrived at Leeds station on time.  
 It took a total of 25 minutes for her to find a taxi and to travel from the station to the hotel.

Calculate the total time taken between Annya departing from Sheffield and arriving at the hotel in Leeds. [4]

.....

.....

.....

.....

.....

.....

.....

.....

.....

Time taken = .....



**10.**

The table shows typical ranges for fares and journey times for London taxis.

London Taxis		Tariff 1	Tariff 2	Tariff 3
Distance (up to)	Approximate journey time	Monday to Friday 06:00 to 20:00	Monday to Friday 20:00 to 22:00 Saturday and Sunday 06:00 to 22:00	Every night 22:00 to 06:00
1 mile	6 - 13 mins	£5.60 - £8.60	£5.60 - £8.80	£6.60 - £8.80
2 miles	10 - 20 mins	£8.40 - £13.40	£8.80 - £13.60	£10.20 - £14.40
4 miles	16 - 30 mins	£15 - £21	£16 - £22	£17 - £27
6 miles	28 - 40 mins	£23 - £28	£28 - £31	£28 - £32

Example:

A journey of 5 miles at midnight would cost between £28 and £32, depending on the length of time of the journey.

Use the table to answer the following questions.

- (a) Peter hires a taxi on a Thursday at 10:25 a.m. for a journey of 2 miles. What is the least amount he should be charged and what would be the earliest time he would get there? [2]

.....

Least amount charged ..... Earliest time .....







**11.**

Drinks are sold from a van parked outside an office block.

The following signs are shown alongside the van.

<u>OPEN</u>	
Monday	8:00 a.m. – 2:00 p.m.
Tuesday	8:00 a.m. – 2:00 p.m.
Wednesday	8:00 a.m. – 6:00 p.m.
Thursday	8:00 a.m. – 2:00 p.m.
Friday	8:00 a.m. – 2:00 p.m.
Saturday	9:00 a.m. – 1:30 p.m.
Sunday	Closed

	<u>Small</u>	<u>Medium</u>	<u>Large</u>
TEA	80p	£1.00	£1.15
COFFEE	£1.00	£1.20	£1.45
JUICE	£1.10	£1.30	£1.55

(a) On which day is the van open later than usual?

.....

[1]

(b) For how long is the van open to sell drinks on a Monday?

..... hours.

[1]

(c) How much would you have to pay altogether for a small tea and a large coffee?

.....  
 .....  
 .....

[2]

S J H S

**12.**

(a) Calculate the cube root of 125. [1]

.....

(b) Calculate the value of 1.4 cubed. [1]

.....

(c) Find the value of  $\sqrt{25 \cdot 3} + 2 \cdot 3^2$ . Write down your answer to 1 significant figure. [2]

.....

.....

(d) Find the value of  $\sqrt{\frac{3}{4 \cdot 2^2 - 3}}$ , giving your answer correct to two decimal places. [2]

.....

.....

.....

.....

.....

.....

.....

(e) Solve the inequality  $5x + 3 > 18$ . [2]

.....

.....

.....

**13.**

Find the exact value of each of the following.

(a)  $5 \cdot 6^2$  [1]

.....

(b) 4 to the power of 5 [1]

.....

(c) the square root of 28.09 [1]

.....



14.

Showing all your working, write  $\frac{1}{2}$ ,  $\frac{3}{8}$  and  $\frac{3}{4}$  in ascending order. [3]

.....

.....

.....

.....

.....

.....

.....

.....

15.

Karim painted a fence.

On Monday, he painted  $\frac{7}{10}$  of the fence.

On Tuesday, he painted another  $\frac{1}{5}$  of the fence.

On Wednesday, he finished painting the fence.

What fraction of the fence did Karim paint on Wednesday? [3]

.....

.....

.....

.....

.....

.....

.....

.....

SJHS

- 16.** (a) Use equivalent fractions, with a common denominator, to write  $\frac{3}{4}$ ,  $\frac{7}{12}$ ,  $\frac{5}{6}$  and  $\frac{2}{3}$  in order with the **smallest** first.  
**You must show all your working.**

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

[3]

- (b) In a school  $\frac{3}{5}$  of the pupils are girls.  
There are 390 girls in the school.  
Calculate the total number of pupils in the school.

.....  
.....  
.....  
.....  
.....  
.....

[3]

- 17.** (a) Find 23% of £52. [2]

.....  
.....

- (b) Find  $\frac{4}{9}$  of 243. [2]

.....  
.....

S J H S

18.

(a) Find  $\frac{3}{4}$  of 156.

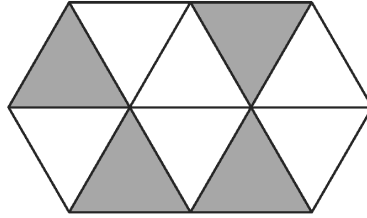
.....

.....

.....

[2]

(b)



(i) What percentage of the shape above is shaded?

.....

[1]

(ii) What percentage of the shape above is NOT shaded?

.....

.....

[1]

(c)

6 : 3	$\frac{2}{6}$	20 : 5	$\frac{3}{4}$
$\frac{5}{20}$	4 : 16	$\frac{4}{12}$	7 : 28

From the table above, select

(i) two **fractions** that are equivalent to  $\frac{1}{3}$ .

.....

.....

[2]

(ii) two **ratios** that are equivalent to 1 : 4.

.....

.....

[2]

SJHS

**19.** Complete the following table.

Fraction	Decimal	Recurring decimal? Yes or No	Terminating decimal? Yes or No
$\frac{2}{5}$			
$\frac{5}{8}$			
$\frac{7}{9}$			
$\frac{2}{11}$			

.....

.....

.....

.....

.....

.....

.....

.....

[4]

**20.** Calculate the value of  $\frac{3}{8}$  as a decimal. [2]

.....

.....

.....

.....



**21.**

Calculate each of the following.

(a)  $892 - 506$  [1]

.....  
.....  
.....  
.....

(b)  $267 \times 15$  [3]

.....  
.....  
.....  
.....  
.....

(c)  $5 \times 0.7$  [1]

.....  
.....

(d)  $0.3 \times 0.2$  [1]

.....  
.....

(e)  $15 - 4 \times 3$  [1]

.....  
.....

(f)  $20 \div (4 + 1)$  [1]

.....  
.....

SJHS



**22.** (a) Arrange the following in ascending order. [1]

0.75      0.5      0.07      0.507

.....

(b) Express each of the following as eighths. [3]

(i)  $\frac{1}{4} = \frac{\quad}{8}$

(ii)  $\frac{1}{2} = \frac{\quad}{8}$

Now, write  $\frac{1}{4}$ ,  $\frac{1}{2}$  and  $\frac{3}{8}$  in order, starting with the **largest**.

.....

**23.** (a) Find 67% of £234. [2]

.....

.....

(b) Find  $\frac{2}{11}$  of 242 g. [2]

.....

.....

(c) **Showing all your working**, write 24%, 0.3 and  $\frac{1}{4}$  in ascending order. [3]

.....

.....

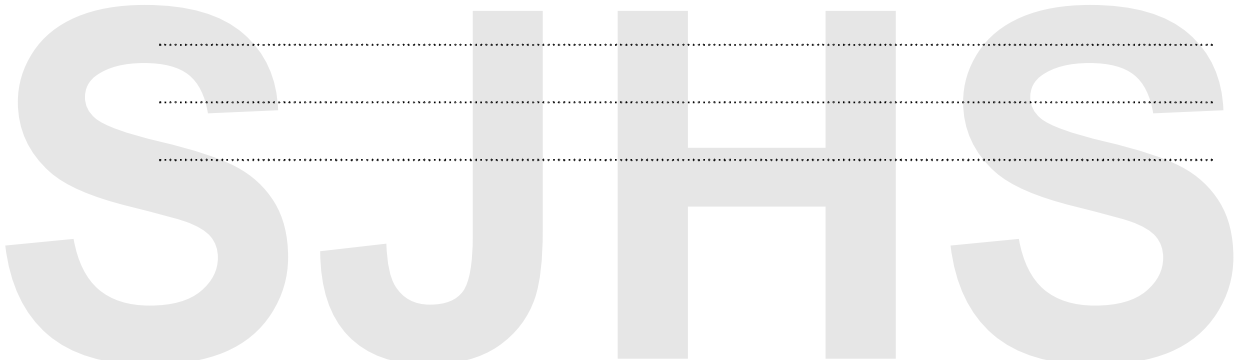
.....

.....

.....

.....

.....



**24.** (a) Complete the following table to show equivalent fractions, decimals and percentages.

Fraction	Decimal	Percentage
	0.75	
$\frac{3}{10}$		

[4]

(b) Find 42% of 630.

.....  
 .....  
 .....

[2]

(c) Find  $\frac{3}{7}$  of 364.

.....  
 .....  
 .....

[2]

**25.** Showing all your working, write 76%, 0.7 and  $\frac{3}{4}$  in descending order. [3]

.....  
 .....  
 .....  
 .....



26.

Given the following information, complete the Venn diagram shown below.

- $\epsilon = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12\}$
- **A** is the set of factors of 24
- **B** is the set of multiples of 3
- **C** is the set of common factors of 30 and 70

.....

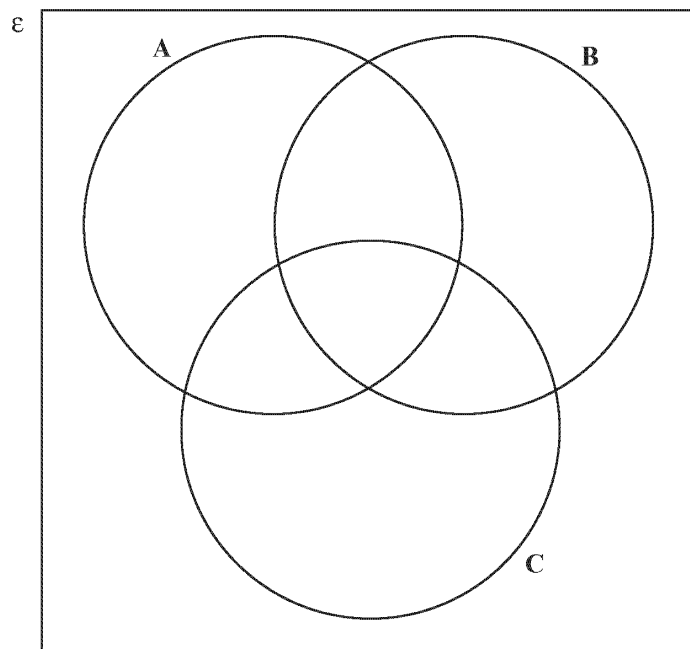
.....

.....

.....

.....

.....



[4]

SJHS

27.

The universal set,  $\epsilon = \{22, 23, 24, 25, 26, 27, 28, 29, 30\}$ .

Within this universal set  $\epsilon$ ,

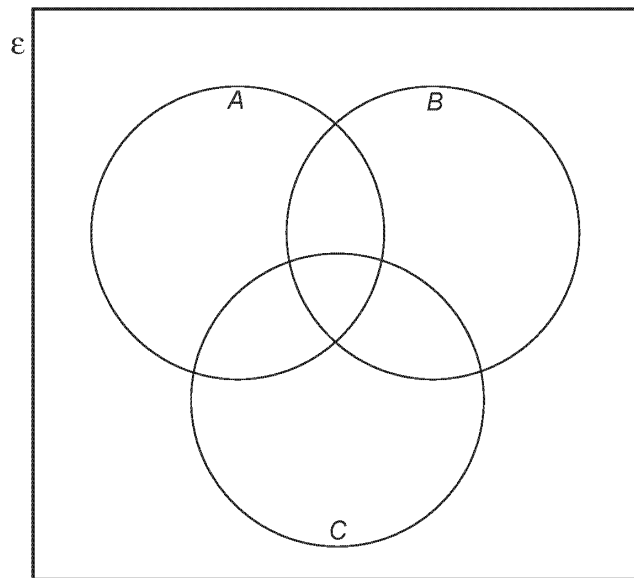
- set  $A$  is the multiples of 2
- set  $B$  is the multiples of 4
- set  $C$  is the multiples of 5

(a) Complete the Venn diagram.

[3]

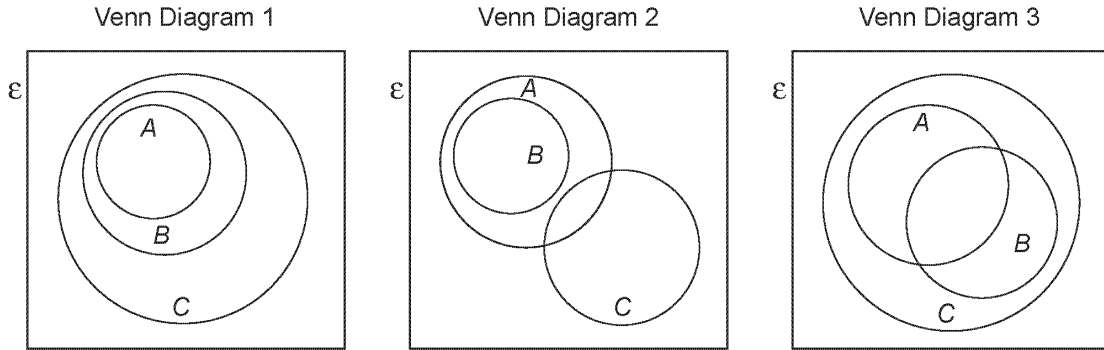
.....

.....



SJHS

- (b) Which one of the following Venn diagrams could also be used to represent the sets  $\mathcal{E}$ ,  $A$ ,  $B$  and  $C$ ?  
 You must give a reason for your choice. [2]



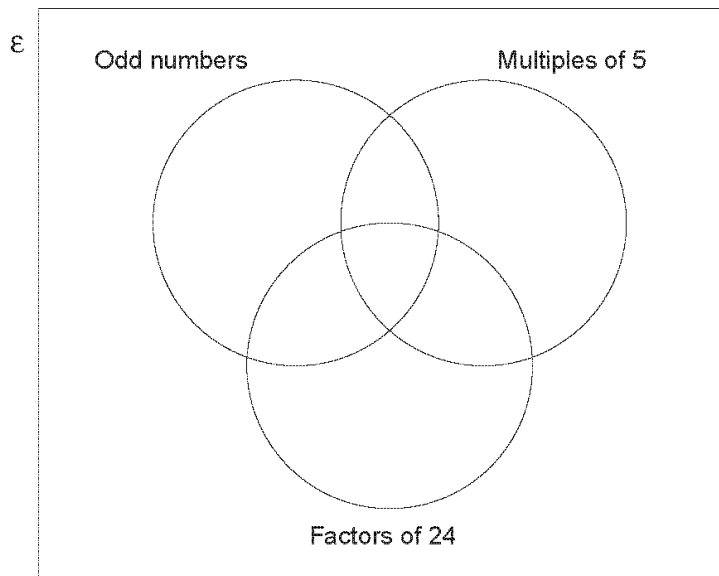
.....

.....

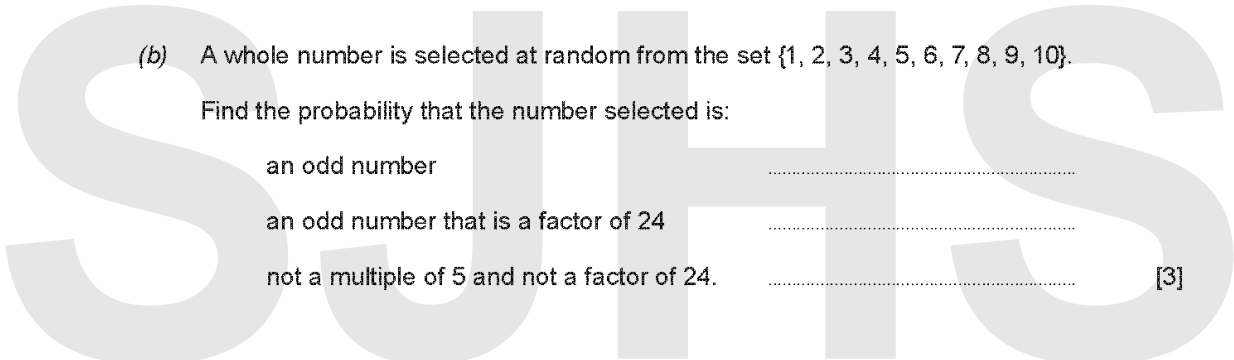
.....

.....

- 28.** (a) Place the whole numbers 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10 in the correct positions in the Venn diagram. [3]



- (b) A whole number is selected at random from the set {1, 2, 3, 4, 5, 6, 7, 8, 9, 10}.  
 Find the probability that the number selected is:
- |   |  |
|---|--|
| an odd number                               | .....  |
| an odd number that is a factor of 24        | .....  |
| not a multiple of 5 and not a factor of 24. | ..... <span style="float: right;">[3]</span> |



**29.**

- (a) Geoff changed £1200 into US dollars (\$), when the rate of exchange was £1 = \$1.52.  
How many dollars did he get? [2]

.....  
.....  
.....  
.....

- (b) During his stay, Geoff spent \$1649 altogether. On his return, he changed his remaining dollars back into pounds, at the same exchange rate.  
How much did he receive in pounds? [2]

.....  
.....  
.....  
.....  
.....  
.....  
.....

SJHS

**30.**

Sally went on a trip to South Africa.

- (a) Before departing, she exchanged £480 into rand.  
The exchange rate was £1 = 13.25 rand.  
How many rand did Sally receive? [2]

.....

.....

.....

.....

- (b) Before departing, she also paid £52 for a safari tour in South Africa.  
This tour would have cost her 795 rand if she had paid for it on the day of the tour.  
Using the same exchange rate, calculate the difference in **pounds** between these two prices. [3]

.....

.....

.....

.....

.....

.....

.....

SJHS

**31.**

Shafira went on a trip to New York.

- (a) She changed £800 into dollars (\$) when the exchange rate was £1 = \$1.57.  
How many dollars did she receive?

.....  
.....  
.....  
.....

[2]

- (b) In New York she bought a coat for \$199.  
Using the same exchange rate, calculate the cost of this coat, giving your answer **to the nearest pound**.

.....  
.....  
.....  
.....  
.....

[3]

SJHS















38.



Sale prices at P & A's Outlet Store are 40% below original prices.  
On Saturdays an additional discount of 20% **off the sale price** is given.

- (a) If Lorraine shops at P & A's Outlet Store on a Tuesday and buys a coat that was originally priced at £140, how much discount will she get?

.....  
.....  
.....

Discount = £ .....

[2]

- (b) Lorraine is advised by her friend to wait until Saturday to purchase the coat.  
How much will Lorraine pay for the coat on Saturday?

.....  
.....  
.....  
.....  
.....  
.....

[4]

S J H S

39.

Mr and Mrs Jones and their four children, aged 12, 9, 7 and 4 years old, visit a toy fair. The cost of tickets to the fair is shown on a board.

**TOYS ACROSS THE AGES**  
Adults    £15 each  
Half price for children under 14 years old  
Free entry for the Under 5s

(a) *You will be assessed on the quality of your written communication in this part of the question.*

What is the total cost of the tickets for Mr and Mrs Jones and the children to visit the toy fair?  
Show all your working. [6]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(b) Mrs Jones had a voucher that gave a discount of 10% off the total cost of their tickets. How much did they actually pay for their tickets? [2]

.....

.....

.....

.....





40. (a) Toby buys the following items to decorate some rooms in his house. Complete his bill. [4]

Item	Cost
10 rolls of wallpaper at £14.82 each	£ 148.20
4 cartons of wallpaper paste at £7.53 per carton	£
6 tins of emulsion paint at £8.32 each	£
4 tins of gloss paint at £14.54 each	£
Total	£

(b) Toby gets a 5% discount on his bill. How much does he pay? [3]

.....

.....

.....

.....

(c) Toby goes to a cafe and buys a cup of tea, a sandwich and a cake. How much change does he get from £6? [3]

Cafe	
Tea	£1.56
Coffee	£2.35
Sandwich	£2.86
Cake	98p

.....

.....

.....

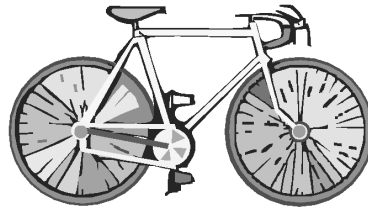
.....

.....



41.

Daniel wants to buy a new bicycle. It is priced at £480.



Daniel can either

- pay £480 immediately, or
- pay a 15% deposit, followed by 24 monthly payments of £22.

(a) Calculate the total amount Daniel would pay using the deposit and monthly payments method. [3]  
You must show all your working.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

(b) Find the percentage increase in the cost of the bicycle when Daniel pays using the deposit and monthly payments method. [3]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

SJHS



43.

A school wanted to buy a number of identical wooden noticeboards.  
These noticeboards normally cost £8 each.

The school found two firms, 'Boards for All' and 'Get Noticed', that sell these noticeboards.  
Both firms had a special offer on the normal price.

BOARDS FOR ALL  
Buy 4 for the price of 3.

GET NOTICED  
First 10 at normal price.  
All extra boards at  $\frac{1}{2}$  price.

- (a) The school bought 17 noticeboards from 'Boards for All'.  
How much did they pay in total? [3]

.....

.....

.....

.....

- (b) Depending on the number of noticeboards that are required, show that it can be cheaper  
to buy them from 'Get Noticed'. [3]

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

SJHS

## Marking Scheme

1.

1.(a)(i) Sixty seven thousand (and) five hundred and thirty	B1	
1.(a)(ii) 8034	B1	
1.(b) (i) 31, 49 OR 40, 40	B1	Do not accept 40 on its own.
1.(b) (ii) 11	B1	
1.(b) (iii) 42	B1	
1.(b) (iv) 25	B1	
1.(b) (v) 64	B1	B0 for $8^2$
1.(b) (vi) 39	B1	
1. (c) (i) 6800	B1	
1. (c)(ii) 7000	B1	

2.

1. (a) (i) 3 411 002	B1	
1. (a) (ii) seventy two thousand <b><u>(no hundreds) (and) sixty five</u></b>	B1	
1. (b) (i) 17 and 63	B1	B0 for 40+40.
1. (b) (ii) 39	B1	
1. (b) (iii) 63	B1	
1. (b) (iv) 6	B1	Allow $48/8 = 6$ , $6 \times 8 = 48$ but B0 for $48/6 = 8$
1. (b) (v) 81	B1	
1. (c) 12 or 16	B1	For 12, 16 or both. Allow $12 \times 8$ OR $16 \times 6$ <b><u>As always, B0 for a choice of answers with at least one answer incorrect</u></b>
1. (d) (i) 6570	B1	
1. (d) (ii) 6600	B1	

3.

1. (a) (i) 19526	B1	
1. (a) (ii) Thirty thousand and fifty four	B1	Ignore extra words such as 'pounds. Ignore slight misspellings.
1. (b) (i) 32, 38	B1	
1. (b) (ii) 57	B1	
1. (b) (iii) 35	B1	
1. (c) (i) 36800	B1	
1. (c) (ii) 36830	B1	
1. (d) (i) 42, 48	B1, B1	-1 for each extra incorrect number.
1. (d) (ii) 49	B1	B1 for $7 \times 7$ OR $7^2$ , but B0 for $7 \times 7 = \text{wrong number}$ . B0 for 7.

4.	1. (a) 6(.00)	B1	FT candidate's values for at least one B1. FT candidate's total.
	3.69	B1	
	4(.00)	B1	
	13.69	B1	
	(b) 2 (rolls)	B1	
	(c) $11.98 \div 2$ or equivalent	M1	
	(£) 5.99 ISW	A1 7	

5.	<b>2015 November UNIT 3 Foundation Tier Mark Scheme</b>	<b>Mark</b>	<b>FINAL MARK SCHEME Comments</b>
	1. (a) (£) 49.98 (£) 4.45 (£) 34 (b) 3 (extra fireworks)	B1 B1 B1 B2  5	FT values in the table B1 for answers that suggest an extra (£) 11.57 or more needs to be spent.

6.	1. (a) (£76.99) (£)31.75 (£)36(.00) (Total) (£)144.74	B1 B1 B1	Accept 3175p. Accept 3600p F.T. their amounts.
	(b) 14 (points)	B1	F.T. their total bill.

7.	6. (a) 2.31	B2	B1 for 2.30(71805857...) All places given must be correct.
	6. (b) 39.10	B2	B1 for 39.1(02183...) All places given must be correct.

8.	2. (a) 57	B1	
	(b) 57.4	B1 2	

9.	<b>June 2015 UNIT 1 Foundation</b>	<b>✓</b>	<b>Mark</b>	<b>Comments</b>
	5. 13:21 train from Sheffield chosen. Attempt to find time difference between 14:02 and 13:21 = 41 (min) (So total time = ) 66 (min) or equivalent.	✓ ✓ ✓ ✓	B1 M1 A1 B1	May be implied in further work. F.T. for 'their chosen train' (Other trains take 1hr 31m, 1hr 11m, 1hr 1m, 1hr 31m) F.T. time for 'their train journey' + 25min. <i>Alternative method</i> (Arrives at Leeds station ) 14:02 B1 F.T. 'their train arrival' + 25min (Arrives at hotel) 14:27 B1 F.T. 'their times' Attempt to find time difference between 14:27 and 13:21 M1 (So total time = ) 66 (min) or equivalent. A1

<b>10.</b>	<b>To be viewed with table</b> 10. (a) (£) 8.40 and 10:35 <b>(a.m.)</b>	B2	B1 for each B0 for 10 minutes
	<b>To be viewed with table</b> 10. (b) Taxi fare is <del>(£)17</del> - <del>(£)27</del> Tube tickets cost <del>(£)20</del> Compares (£)17 with (£)20 Compares (£)27 with (£)20	✓ B1 B1 B1 B1	Per person solutions <b>Taxi fare is (£)17 - (£)27</b> <b>B1</b> <b>Divides any taxi fare by 5</b> <b>B1</b> <b>Compares (£)3.40 with (£)4</b> <b>B1</b> <b>Compares (£)5.40 with (£)4</b> <b>B1</b> F.T. their figures <b>2 taxis (Maximum 3 marks available)</b> <b>Taxi fare is (£)34 - (£)54</b> <b>B1</b> <b>Tube tickets cost (£)20</b> <b>B1</b> <b>Taxi (always) more than tube</b> <b>B1</b>

<b>11.</b>	1. (a) Wednesday (b) 6 (hours) (c) (£)0.8(0) + (£)1.45 OR 80(p) + 145(p)  = (£)2.25 or 225(p)	B1 B1 M1  A1 4	
------------	---	-------------------------------	--

<b>12.</b>	14. (a) 5 (b) 2.744 (c) 10 (d) 0.45 (e) $5x > 15$ $x > 3$	B1 B1 B2 B2 M1 A1 8	B1 for 10.3(199...) B1 for 0.45267... rounded or truncated  CAO
------------	--	---------------------------------------	--

<b>13.</b>	5. (a) 31.36 (b) 1024 (c) 5.3	B1 B1 B1 3	
------------	-------------------------------------	---------------------	--

<b>14.</b>	10. For 2 correct in a form which allows comparison For all 3 correct in a form which allows comparison $\frac{3}{8}, \frac{1}{2}, \frac{3}{4}$	B1 B1 B1 3	Answer only gets B1. CAO
------------	---	---------------------	--------------------------

<b>15.</b>	8. $\frac{7}{10} + \frac{2}{10}$ or equivalent $\frac{9}{10}$ or equivalent $\frac{1}{10}$	M1 A1 B1	Fractions must have a common denominator  FT 'their derived $\frac{9}{10}$ ' Alternative – using a length: Finding $\frac{7}{10}$ and $\frac{1}{5}$ of a length AND adding them M1 Correct answer to addition A1 Final answer of $\frac{1}{10}$ B1
------------	--	----------------	--

<b>16.</b>	8. (a) For all 4 correct as fractions that allows comparison $\frac{7}{12}, \frac{2}{3}, \frac{3}{4}, \frac{5}{6}$ or equivalent fractions (e.g. $\frac{7}{12}, \frac{8}{12}, \frac{9}{12}, \frac{10}{12}$ )  (b) $390 \div 3$ ..... $\times 5$ 650	M2 A1 M1 m1 A1 6	Award M1 for any two correct in a fraction that allows comparison  If no marks awarded, award SC1 for correct order without using equivalent fractions  Accept in either order $\times 5 \div 3$ . Award M1 for sight of 130 or 1950 CAO
------------	--	---------------------------------	---

17.	8. (a) $23/100 \times 52$ = (£) 11.96	M1 A1	
	(b) $4/9 \times 243$ = 108	M1 A1	
		4	

18.	5. (a) $3/4 \times 156$ 117	M1 A1	Or equivalent  FT 100 – ‘their 40’ correctly evaluated Award B1 for each. If more than 2 answers offered -1 for each incorrect answer in (i) and (ii)
	(b) (i) 40(%) (ii) 60(%)	B1 B1	
	(c) (i) $2/6$ and $4/12$ (ii) 4 : 16 and 7 : 28	B2 B2	
		B2	
		8	

19.	5.	B4	All correct B3 any 3 rows correct or all 4 decimals correct B2 any 2 rows correct or 3 decimals correct B1 any 1 row correct or 2 decimals correct  <i>Accept unambiguous intention for Yes/No columns Accept if candidate indicates yes without giving the corresponding no, unless there is a contradiction, and vice versa</i>																				
	<table border="1"> <thead> <tr> <th>Fraction</th> <th>Decimal</th> <th>Recurring</th> <th>Terminating</th> </tr> </thead> <tbody> <tr> <td>2/5</td> <td>0.4</td> <td>No</td> <td>Yes</td> </tr> <tr> <td>5/8</td> <td>0.625</td> <td>No</td> <td>Yes</td> </tr> <tr> <td>7/9</td> <td>0.77(777...) or 0.78</td> <td>Yes</td> <td>No</td> </tr> <tr> <td>2/11</td> <td>0.18(18...)</td> <td>Yes</td> <td>No</td> </tr> </tbody> </table>	Fraction		Decimal	Recurring	Terminating	2/5	0.4	No	Yes	5/8	0.625	No	Yes	7/9	0.77(777...) or 0.78	Yes	No	2/11	0.18(18...)	Yes	No	
	Fraction	Decimal		Recurring	Terminating																		
	2/5	0.4		No	Yes																		
	5/8	0.625		No	Yes																		
	7/9	0.77(777...) or 0.78		Yes	No																		
2/11	0.18(18...)	Yes	No																				
		4																					

20.	12. $(3/8) = 8)3.000$	M1	Any valid method. Must show a division method being implemented <b>M0, A0 for unsupported (0).38</b>
	<b>(0).375 ISW</b>	A1	

21.	4. (a) 386	B1	Any correct method for multiplying 267 by 15  For either 2670 or 1335 OR 3000 or 900 or 105 (Apply ‘one error’ in other methods) CAO Place value errors get M0 A0
	(b) $267$ $\underline{15 \times}$ 2670      OR      3000 1335                      900 $\underline{4005}$ $\underline{105}$ $\underline{4005}$	M1 A1 A1	
	(c) 3.5	B1	
	(d) 0.06	B1	
	(e) 3	B1	
	(f) 4	B1	
		8	

22.	7. (a) 0.07, 0.5, 0.507, 0.75	B1	CAO. Accept 4/8, 3/8, 2/8.
	(b) (i) $2/8$ (ii) $4/8$	B1 B1	
	$1/2, 3/8, 1/4$	B1	
		B1	
		4	

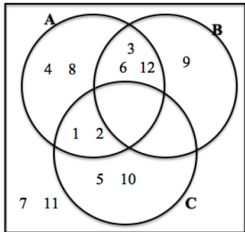




23.	6. (a) $67/100 \times 234$ = (£) 156.78	M1 A1	Or equivalent
	(b) $2/11 \times 242$ = 44 (g)	M1 A1	Or equivalent
	(c) For 2 correct in a form which allows comparison	B1	
	For all 3 correct in a form which allows comparison	B1	Eg $1/4 = 25\% = 0.25$
	24%, $1/4$ , 0.3	B1 7	
			Or equivalent Answer only gets B0, B0, B1

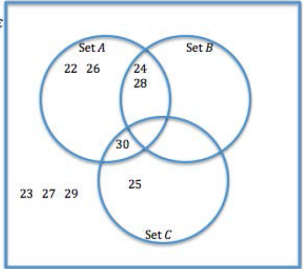
24.	3. (a)							
	<table border="1" style="display: inline-table; vertical-align: middle;"><tr><td><math>3/4</math></td><td></td><td>75(%)</td></tr><tr><td></td><td>0.3(0)</td><td>30(%)</td></tr></table>	$3/4$		75(%)		0.3(0)	30(%)	B2 B2
$3/4$		75(%)						
	0.3(0)	30(%)						
	(b) $42/100 \times 630$ 264.6(0)	M1 A1	CAO					
	(c) $3/7 \times 364$ 156	M1 A1 A1 8	Or equivalent CAO					

25.	9. For 2 correct in a form which allows comparison	B1	
	For all 3 correct in a form which allows comparison	B1	
	76%, $3/4$ , 0.7	B1 3	

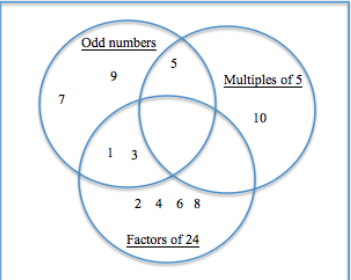
26.	3. Venn diagram correct	B4	No extra number >12 Mark unique placements of numbers, for duplicates mark the incorrect number then award as follows: B3 for any 9, 10 or 11 numbers correctly placed with no more than 1 extra number >12 B2 for any 6, 7 or 8 numbers correctly placed with no more than 2 extra numbers >12 B1 for any 3, 4 or 5 numbers correctly placed and ignore any extra numbers If no marks awarded SC1 for sight of sets A, B and C correct (including any extra numbers), shown in working or within Venn diagram
		4	

S J H S

27.

<p>17(a) All 9 numbers placed correctly</p>  <p>(b) Venn diagram 2 AND full reason, e.g. 'multiples of 4 are a subset of multiples of 2 and there is a multiple of 2 which is a multiple of 5', or 'set B is a subset of set A, and set A intersects with set C', or 'A &amp; B share some of the numbers, but C only shares numbers with A', or 'C &amp; B have nothing in common, and B shares everything with A'</p>	<p>B3</p> <p>E2</p> <p>5</p>	<p>B2 for any 7 or 8 numbers placed correctly, the other numbers omitted or incorrectly placed, OR B1 for any 5 or 6 numbers placed correctly, the other numbers omitted or incorrectly placed. <i>Any ambiguous duplicates are marked as an incorrect placement for that number</i></p> <p>OR selects Venn diagram 2 and explains why the other 2 Venn diagrams are not selected E1 for choice of Venn diagram 2 AND a partial reason, i.e. only mentions 1 aspect or attempts an explanation e.g. '4 times table is within 2 times table', or 'shows which of A are within 4 times table', or '22 is in A but not in C', or 'no multiples of 4 in C' OR E1 for selection of Venn diagram 2 and explains why 1 of the other 2 Venn diagrams are not selected <i>Accept informal words such as 'within' for 'subset', 'overlap' for 'intersection'</i></p>
--	------------------------------	--

28.

<p>Methods in Mathematics June 2015 Unit 1 Foundation Tier</p>	<p>Mark</p>	<p>Comments</p>
<p>11. (a)</p>  <p>(b) 5/10 ISW 2/10 ISW 2/10 ISW</p>	<p>B3</p> <p>B1</p> <p>B1</p> <p>B1</p> <p>6</p>	<p>Penalise any extra numbers (e.g. &gt;10), -1 only B2 for 8 or 9 of the numbers placed correctly, marking any repeats as incorrect, OR B1 for 5, 6 or 7 of the numbers placed correctly, marking any repeats as incorrect</p> <p>Accept equivalents throughout CAO Now FT consistent incorrect denominator: OR FT from their Venn diagram. OR FT from their Venn diagram If no marks in (b) award SC1 for 5, 2 and 2 or identifying the correct regions by listing the correct numbers <i>Penalise incorrect notation once only, -1</i></p>

29.

<p><b>Parts (a) &amp; (b) marked at the same time</b> 12. (a) (Number of dollars = ) <math>1200 \times 1.52</math> = (\$) 1824 ISW  (b) <math>(1824 - 1649) \div 1.52</math> OR <math>175 \div 1.52</math> = (£)115.13 ISW</p>	<p>M1</p> <p>A1</p> <p>M1</p> <p>A1</p>	<p>\$ not required but £ gets A0.  F.T. 'their (\$)1824' £ not required but \$ gets A0. Accept (£)115 but A0 for (£)115.1</p>
--	---	---



30.	9(a)	$480 \times 13.25$ $= 6360$ (rand)	M1 A1	F.T. 'their (£)60' – (£)8. <u>Alternative method.</u> $795 - (52 \times 13.25)$ M1 (106 rand gains M1) $\div 13.25$ m1 $= (£)8$ A1
	(b)	$795 \div 13.25$ $= (£)60$ (A difference of) (£)8	M1 A1 A1	
			5	

31.	9. (a)	$800 \times 1.57$ $= (\$)1256$	M1 A1	
	9. (b)	(Cost of coat =) $199 \div 1.57$ $= (£)126.7(5\dots)$ (To nearest pound =) (£)127	M1 A1 A1	F.T. their amount.

32.	6.	(Hire of hall) $4 \times (£)20$ $= (£)80$ (Total cost =) (£)230 $128 \times (£)5$ (Income =) (£)640  (Profit =) (£)640 – (£)230 $=$ Profit of (£)410	M1 A1 A1 M1 A1  M1 A1	F.T. 150 + 'their 80'.  F.T. their values. Must indicate 'Profit' ( or 'Loss' if so on F.T.).
		Look for <ul style="list-style-type: none"> <li>• spelling</li> <li>• clarity of text explanations,</li> <li>• the use of notation (watch for the use of '=', £ being appropriate)</li> </ul> QWC2: Candidates will be expected to <ul style="list-style-type: none"> <li>• present work clearly, with words explaining process or steps</li> </ul> AND <ul style="list-style-type: none"> <li>• make few if any mistakes in mathematical form, spelling, punctuation and grammar and include units in their final answer</li> </ul> QWC1: Candidates will be expected to <ul style="list-style-type: none"> <li>• present work clearly, with words explaining process or steps</li> </ul> OR <ul style="list-style-type: none"> <li>• make few if any mistakes in mathematical form, spelling, punctuation and grammar and include units in their final answer</li> </ul>	QWC 2	QWC2. Presents relevant material in a coherent and logical manner, using acceptable mathematical form, and with few if any errors in spelling, punctuation and grammar.  QWC1. Presents relevant material in a coherent and logical manner, but with some errors in use of mathematical form, spelling, punctuation or grammar. OR Evident weakness in organisation of material but using acceptable mathematical form, and with few if any errors in spelling, punctuation and grammar.  QWC0. Evident weakness in organisation of material and errors in use of mathematical form, spelling, punctuation and grammar



33.

<p>11. <u>Method 1 (total profit = total selling price – total cost price)</u>                  (Money taken for full-price fruit cakes =) <math>\frac{3}{4} \times 20 \times (\pounds)6 (= (\pounds)90)</math>                  (Money taken for reduced-price fruit cakes =) <math>5 \times 0.7 \times (\pounds)6 (= (\pounds)21)</math>                  (Total money taken for chocolate cakes =) <math>13 \times (\pounds)2 + 2 \times (\pounds)1 (= (\pounds)28)</math></p> <p>(Total cost =) <math>20 \times (\pounds)3 + 15 \times (\pounds)1 (= (\pounds)75)</math>                  (Profit =) <math>(\pounds) [90 + 21 + 28] - (\pounds)75 = (\pounds) 64</math></p> <p>OR</p> <p><u>Method 2 (total profit = fruit cake profit + chocolate cake profit)</u>                  (Full-price fruit cake profit =) <math>\frac{3}{4} \times 20 \times (\pounds)6 - \frac{3}{4} \times 20 \times (\pounds)3</math>                  OR <math>\frac{3}{4} \times 20 \times (\pounds)(6 - 3) (= (\pounds)45)</math>                  (Reduced-price fruit cake profit =) <math>5 \times 0.7 \times (\pounds)6 - 5 \times (\pounds)3</math>                  OR <math>5 \times (0.7 \times (\pounds)6 - (\pounds)3) (= (\pounds)6)</math></p> <p>(Full-price chocolate cake profit =) <math>13 \times (\pounds)2 - 13 \times (\pounds)1</math>                  OR <math>13 \times (\pounds)(2 - 1) (= (\pounds)13)</math>                  (Reduced-price chocolate cake profit = 0)</p> <p>(Total profit =) <math>(\pounds) [45 + 6 + 13 (+0)] = (\pounds) 64</math></p>	<p>B1 B1 B1 B1 MI A1 OR B1 B2 B1 MI A1 6</p>	<p>Or equivalent e.g. <math>(\pounds) 0.60 \times 5 \times 7</math>. FT from 'their <math>\frac{3}{4} \times 20</math>'</p> <p>Consideration of '+ 2 × (£)1' can be implicit</p> <p>FT provided at least B2 awarded CAO</p> <p>B1 for sight of <math>5 \times 0.7 \times (\pounds)6</math> or <math>(\pounds)1.20</math> FT from 'their <math>\frac{3}{4} \times 20</math>'</p> <p>FT provided at least B2 CAO</p>
---	--	--

34.

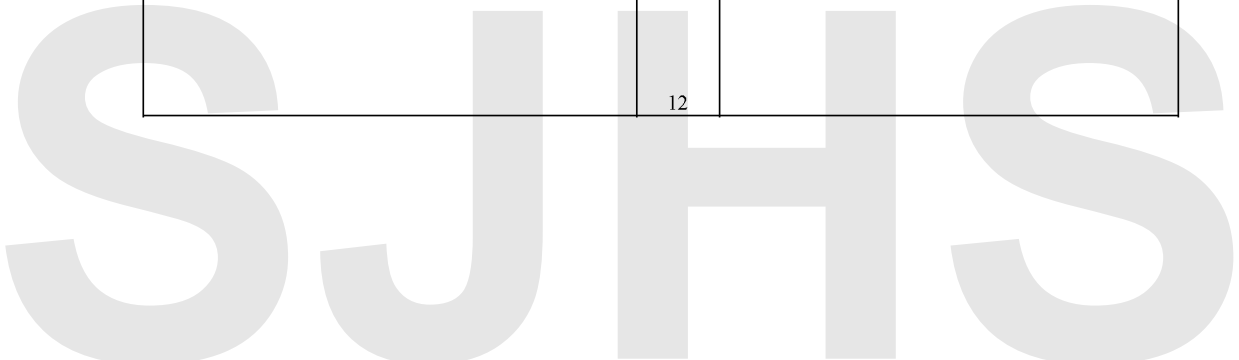
2015 Summer Linear Paper 1 (Non calculator) Foundation Tier	Marks	Comments
<p>11. (60 shirts at £8 each, <math>60 \times 8 = \pounds) 480</math>                  (Selling Price for profit of 50% = £) 12                  (15 shirts at £12 = <b>15×12</b> = £) 180                  (Reduced selling price = <b>12 – 5</b> = £) 7                  (45 shirts at £7 = <b>45 × 7</b> = £) 315                  Having the (£)495 and (£)480 and stating 'profit'                  OR (£)15 profit  <u>Alternative method using 'Profit'</u>                  Considers profit on full price shirt AND loss on reduced price shirt.                  (Profit on one shirt = 50% of £8 = £) 4                  (Profit on 15 shirts = <math>15 \times 4 = \pounds) 60</math>                  (Loss on one shirt = £5 - £4 = £) 1                  (Loss on 45 shirts = <math>45 \times \pounds 1 = \pounds) 45</math>                  Having the (£)60 and (£)45 and stating 'profit'                  OR (£)15 profit</p>	<p>✓ B1 B1 B1 B1 B1 B1 S1 B1 B1 B1 B1 B1</p>	<p>F.T. 'their £12' <b>but NOT £8 for this B1 ONLY</b>                  F.T. 'their £12'                  F.T. 'their £7'                  Correct conclusion on their figures  <b><u>Do not penalise an incorrect evaluation of their profit</u></b></p> <p>F.T. 'their £4'                  F.T. 'their £4'. <b><u>Could also be profit of '-(£)1' etc</u></b>                  F.T. 'their £1'                  Correct conclusion on their figures  <b><u>Do not penalise an incorrect evaluation of their profit</u></b></p>
<p>Look for</p> <ul style="list-style-type: none"> <li>spelling</li> <li>clarity of text explanations,</li> <li>the use of notation (watch for the use of '=', £ being appropriate)</li> </ul> <p>QWC2: Candidates will be expected to</p> <ul style="list-style-type: none"> <li>present work clearly, with words explaining process or steps</li> </ul> <p>AND</p> <ul style="list-style-type: none"> <li>make few if any mistakes in mathematical form, spelling, punctuation and grammar and include units in their final answer</li> </ul> <p>QWC1: Candidates will be expected to</p> <ul style="list-style-type: none"> <li>present work clearly, with words explaining process or steps</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>make few if any mistakes in mathematical form, spelling, punctuation and grammar and include units in their final answer</li> </ul>	<p>QWC 2</p>	<p>QWC2 Presents relevant material in a coherent and logical manner, using acceptable mathematical form, and with few if any errors in spelling, punctuation and grammar.                  QWC1 Presents relevant material in a coherent and logical manner but with some errors in use of mathematical form, spelling, punctuation or grammar .                  OR                  Evident weaknesses in organisation of material but using acceptable mathematical form, with few if any errors in spelling, punctuation and grammar.                  QWC0 Evident weaknesses in organisation of material, and errors in use of mathematical form, spelling, punctuation and grammar.</p>

35.

<p>16. Taxable income (52250 – 9205=) (£)43045                  40% tax to be paid on (£)10790</p> <p>0.2 × 32255 (=6451)                  0.4 × 10790 (=4316)</p> <p>(£) 6451 AND (£)4316                  Claudia’s tax should be (£)10767</p>	<p>B1                  B1                  M1                  M1                  A1                  A1</p>	<p>FT ‘taxable income’ – 32255, i.e. ‘their 52250 -9205’ – 32255 correctly evaluated</p> <p>FT 0.4 × (‘their 43045’ – 32255) provided ‘their 43045’ &gt; 32255, also FT (52250 – 32255 =) giving 0.4 × 19995 (=7998)</p> <p>FT sum of ‘their 6451’ + ‘their 4316’ provided at least 1 of these values is correct and M2 awarded</p> <p><i>(Note: 6451 + 7998 = 14449)</i></p>
--	---	---

36.

<p>3.(a) <math>8 \times 6.50</math>                  (£)52</p> <p>(b) <math>6.50 \times 2 \times 5</math>                  (£)65</p> <p>(c) earnings <math>(32 \times 6.50=)</math> (£)208                  Tax &amp; NI (1/10 of 208=) (£)20.8(0)                  Total outgoings <math>(20.8(0) + 50 + 60=)</math> (£)130.8(0)                  Has left <math>(208 - 130.8(0)=)</math> (£)77.2(0)                  Number of weeks <math>(439 \div 77.2(0)= 5.68\dots)</math> 6 weeks needed</p> <p>For QWC Look for</p> <ul style="list-style-type: none"> <li>• spelling</li> <li>• clarity of text explanations</li> <li>• the use of notation (watch for the use of ‘=’, ‘£’ being appropriate)</li> </ul> <p>Notes:                  QWC2 requires words throughout the response not just connected to the final answer.</p> <p>QWC2: Candidates will be expected to</p> <ul style="list-style-type: none"> <li>• present work clearly, with words explaining process or steps</li> </ul> <p>AND</p> <ul style="list-style-type: none"> <li>• make few if any mistakes in mathematical form, spelling, punctuation and grammar and include units in their final answer</li> </ul> <p>QWC1: Candidates will be expected to</p> <ul style="list-style-type: none"> <li>• present work clearly, with words explaining process or steps</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• make few if any mistakes in mathematical form, spelling, punctuation and grammar and include units in their final answer</li> </ul>	<p>M1                  A1                  M2                  A1                  B1                  B1                  B1                  B1                  B1                  B1</p> <p>Q                  W                  C                  2</p>	<p>Award M1 for either <math>6.5(0) \times 2</math> or <math>6.5(0) \times 5</math></p> <p>OR Award M1 <math>5 \times 2 = 10</math> hours                  M1 <math>10 \times 6.5(0)</math>                  A1 (£)65</p> <p>CAO                  FT their 208                  FT their 20.8(0)                  FT their 130.8(0)                  FT their 77.2(0)</p> <p><u>Alternative method</u>                  Earnings = 208 <b>B1</b>                  Tax = 20.80 <b>B1</b>  <math>(208 - 20.80 = )187.20</math> <b>B1</b>                  Has left 77.20 <b>B1</b> FT <math>187.20 - 50 - 60</math>                  Number of weeks = 6 weeks <b>B1</b> FT their 77.2(0)</p> <p><i>If no tax &amp; NI Award</i>                  B1 for 208, B0, B0, B1 for <math>(208 - 110 =) 98</math>, B1 for <math>(439 \div 98=) 5</math> weeks</p> <p>QWC2 Presents relevant material in a coherent and logical manner, using acceptable mathematical form, and with few if any errors in spelling, punctuation and grammar.</p> <p>QWC1 Presents relevant material in a coherent and logical manner but with some errors in use of mathematical form, spelling, punctuation or grammar                  OR                  evident weaknesses in organisation of material but using acceptable mathematical form, with few if any errors in spelling, punctuation and grammar.</p> <p>QWC0 Evident weaknesses in organisation of material, and errors in use of mathematical form, spelling, punctuation or grammar.</p>
--	---	--





39.

June 2015 UNIT 1 Foundation	✓	Mark	Comments
<p><b>1. Ribbon marking for 1(a) and 1(b).</b></p> <p>(a) (Two adult tickets = <math>2 \times £15 =</math>) (£)30 ✓                      (One child's ticket =) (£)7.5(0) ✓                      (Three child's tickets = <math>3 \times £7.50 =</math>) (£)22.5(0) ✓                      (Total cost =) (£)52.5(0) ✓</p> <p>Look for</p> <ul style="list-style-type: none"> <li>• spelling</li> <li>• clarity of text explanations and correct units shown</li> <li>• the use of notation (watch for the use of '=' and '+' being appropriate)</li> </ul> <p>QWC2: Candidates will be expected to</p> <ul style="list-style-type: none"> <li>• present work clearly, with words explaining process or steps</li> </ul> <p>AND</p> <ul style="list-style-type: none"> <li>• make few if any mistakes in mathematical form, spelling, punctuation and grammar and include units in their final answer</li> </ul> <p>QWC1: Candidates will be expected to</p> <ul style="list-style-type: none"> <li>• present work clearly, with words explaining process or steps</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• make few if any mistakes in mathematical form, spelling, punctuation and grammar and include units in their final answer</li> </ul>	✓	B1 B1 B1 B1	<p>Sight of (£)7.5(0) or may be implied in further work. F.T. <math>3 \times</math> 'their £7.50', but <b>not</b> <math>3 \times</math> £15</p> <p>F.T. 'their amounts' but not if simply £15 or £7.50. Correct answer gains B4.</p> <p>QWC2. Presents relevant material in a coherent and logical manner, using acceptable mathematical form, and with few if any errors in spelling, punctuation and grammar.</p> <p>QWC1. Presents relevant material in a coherent and logical manner, but with some errors in use of mathematical form, spelling, punctuation or grammar.</p> <p>OR</p> <p>Evident weakness in organisation of material but using acceptable mathematical form, and with few if any errors in spelling, punctuation and grammar.</p> <p>QWC0. Evident weakness in organisation of material and errors in use of mathematical form, spelling, punctuation and grammar.</p> <p><u>An unsupported answer is QWC0.</u></p>
<p><b>Ribbon marking for 1(a) and 1(b).</b></p> <p>1(b) (£)47.25</p>		B2	<p>F.T. <math>0.9 \times</math> 'their total cost'.                      B1 for (£)5.25                      OR a correct evaluation of <math>0.1 \times</math> 'their total cost'.</p>

40.

2015 November Paper 2 (Calculator allowed) Foundation Tier	Marks	FINAL MARK SCHEME Comments
<p>1. (a) (148.20)</p> <p>30.12 (paste)</p> <p>49.92 (e paint)</p> <p>58.16 (g paint)</p> <p>(£) 286.4(0)</p> <p>(b) <math>10\% = 28.64</math> <math>5\% = 14.32</math> OR <math>(0).05 \times 286.4(0)</math>                      Discount = (£) 14.32                      He pays (£)272.08</p> <p>(c) Cost = (£)1.56 + (£)2.86 + 98(p)   OR (£)6 - (£)1.56 - (£)2.86 - (£)0.98                      = (£)5.4(0)                        Change = 60(p) OR (£)0.6(0)</p>	<p>B1 B1 B1</p> <p>B1</p> <p>M1 A1 A1</p> <p>M1 A1 B1 10</p>	<p>F.T. their figures</p> <p>For any correct method for finding 5%                      F.T. 'their total'. Ignore extra decimal places.                      F.T. 'their total - their discount'</p> <p><i>Alternative:</i>  <math>0.95 \times</math> their 286.4(0) M2                      He pays (£)272.08 A1</p> <p>M0, A0 if coffee used instead of tea, but B1 is possible.</p> <p>F.T. 'their £5.40', but B0 if more than £6</p> <p><b>Accept £(0).60p</b>  <b>B0 for (0).60p. Unsupported (0).60p gets M0,A0,B0</b></p>



<p><b>41.</b></p> <p><b>12. Ribbon marking for 12(a) and (b)</b></p> <p>(a) <math>0.15 \times (\pounds)480</math> or equivalent OR an attempt to calculate <math>24 \times (\pounds)22</math></p> <p>(Total cost =) <math>0.15 \times (\pounds)480 + 24 \times (\pounds)22</math> or equivalent <math>(\pounds)72 + \pounds528 = (\pounds)600</math></p> <p>(b) (Difference in price =) <math>(\pounds)600 - (\pounds)480</math> OR <math>(\pounds)120</math> (Percentage increase =) <math>120/480 \times 100\%</math> or equivalent <math>25\%</math></p>			
		M1	Valid method for finding either 15% of $(\pounds)480$ OR $24 \times (\pounds)22$ (implied by sight of $(\pounds)72$ or $(\pounds)528$ respectively)
		M1	A complete correct method
		A1	CAO
		B1	Attempt to find difference in price. FT 'their (a)'
		M1 A1	A complete correct method OR $600/480 \times 100\%$ (= 125%) B1 $600/480 \times 100\% - 100\%$ M1 $25\%$ A1

<p><b>42.</b></p> <p><b>2015 November UNIT 3 (calculator allowed)</b> <b>Foundation Tier</b></p> <p>9. (Cost of four 'Top Class Tyres') (before discount) <math>(4 \times \pounds95 = \pounds)380</math> (after discount) <math>(\pounds)380 - 0.1 \times (\pounds)380</math> or <math>0.9 \times (\pounds)380</math> (after discount) <math>(\pounds)342</math> (cost of five 'Economy Tyres' with fitting) <math>5 \times (\pounds)64 + (\pounds)20</math> <math>(\pounds)340</math> and a conclusion e.g. Arwyn has enough money to buy, and have fitted, four 'Economy Tyres'.</p> <p>Look for</p> <ul style="list-style-type: none"> <li>Spelling</li> <li>Clarity of text explanations,</li> <li>Consistent and correct use of <math>\pounds</math> or p signs.</li> </ul> <p>QWC2: Candidates will be expected to</p> <ul style="list-style-type: none"> <li>Present work clearly, with words explaining process and steps</li> </ul> <p>AND</p> <ul style="list-style-type: none"> <li>Make few, if any, mistakes in mathematical form, spelling, punctuation and grammar in their final answer.</li> </ul> <p>QWC1 : Candidates will be expected to</p> <ul style="list-style-type: none"> <li>Present work clearly, with words explaining process or steps</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Make few, if any, mistakes in mathematical form, spelling, punctuation and grammar in their final answer.</li> </ul>	<p><b>Mark</b></p> <p>B1 M1 A1 M1 A1</p> <p>QWC 2</p> <p>7</p>	<p><b>FINAL MARK SCHEME</b> <b>Comments</b></p> <p>FT 'their' <math>(\pounds)380</math></p> <p>FT cost of top class tyres. FT cost of economy tyres if M1 awarded. FT conclusion consistent with cost calculations.</p> <p>QWC2 Presents relevant material in a coherent and logical manner, using acceptable mathematical form, and with few if any errors in spelling, punctuation and grammar.</p> <p>QWC1 Presents relevant material in a coherent and logical manner but with some errors in use of mathematical form, spelling, punctuation or grammar. OR Evident weakness in organisation of material but using acceptable mathematical form, with few, if any, errors in spelling, punctuation and grammar.</p> <p>QWC0 Evident weakness in organisation of material, and errors in use of mathematical form, spelling, punctuation and grammar.</p>
---	--	---

**43.** There is no marking scheme available for this question

