



MATHEMATICS



ANSWER BOOKLET

Unit 1

Managing Money

Income and Expenses

Exercise 1 – Page 2

- | | | | | |
|---|------------|-----------|------------|------------|
| 1 | a £510 | b £290 | c £350 | d £510 |
| | e £513 | f £776 | g £553.70 | h £1185.84 |
| 2 | a £190 | b £270 | c £73 | d £312 |
| | e £364.80 | f £827.62 | g £1138.69 | |
| 3 | a £437.30 | b £98.60 | c £338.70 | |
| 4 | a £517.80 | b £116.40 | c £401.40 | |
| 5 | a £1648.34 | b £698.46 | c £1501.34 | |
| 6 | a £319.60 | b £90.46 | c £229.14 | |

Exercise 2 – Page 4

- | | | | | |
|---|--------------|--------------|----------------|-----------|
| 1 | Safeco £6.15 | Asdabury £17 | Sainsco £19.29 | |
| 2 | £386.60 | 3 £15.01 | 4 £55.18 | 5 £130.62 |
| 6 | £51.35 | 7 £14.84 | 8 £52.38 | 9 £39.60 |

Exercise 3 – Page 6

- | | | |
|---|------------|-----------|
| 1 | £65.30 | |
| 2 | a £9.10 | b £10.90 |
| 3 | a 69.1kg | b 5.1kg |
| 4 | a £1200 | b £1250 |
| 5 | a 21 boxes | b £173.25 |
| 6 | a 9 weeks | b 6 weeks |
| 7 | 35 | |
| 8 | £4.10 | |
| 9 | a £11.55 | b £3.30 |

Non Calculator Percentages

Exercise 1 – Page 8

- 1 a £42 b £250 c £16 d £4
e £1280 f £27 g £4.50 h £5.20
l £6.30 j £36 k £69 l £30
m £2.40 n £102.40 o £45.75 p £1.55
q £2.64 r 2p
- 2 66 birds
- 3 220
- 4 1350
- 5 73 days

Exercise 2 – Page 8

- 1 a £1.60 b £213 c £1.60 d £6
e 4.3g f £13 g £315 h 5.2cm
l £1.50 j £3.60 k £7200 l £440
m £2.40 n £102.40 o £45.75 p £1.55
q £2.64 r 2p s £500,000 t £156
u 42p v 525kg w 45p x £45
y £16.80 z £5.60
- 2 i £18 ii £3 iii £9
- 3 i £8 ii £24 iii £4 iv £12
- 4 i £4 ii £12 iii £2 iv £6
- 5 10% + 5% or 10%, 5% and find $3 \times 5\%$.
- 6 a 89 b 178
- 7 a 565.5 b 188.5
- 8 a 960 b 840 c 360 d 240
- 9 a £8333.33 b £6250 c £5000

Calculator Percentages

Exercise 1 – Page 9

a £72	b £64.40	c £9	d £146.16
e £3.96	f £65.17	g £35.34	h £341.04
i £3403	j £16.92	k £19.24	l £83.72
m £68.88	n £4.05	o £10.36	p £42.18
q £579.60	r £302.40	s £375.10	t £2.40
u £2.10	v £3.60	w £4.50	x £1.20

Exercise 2 – Page 10

a £1.12	b £5.85	c £10.25	d £471.70
d £64.60	e £13.20	f £2.30	g £149.60
h £3.50	l £11.40	j £4.90	k £9.90
l £5.50	m £0.85	n £5.40	o £57.54
p £5.44	q £44.64	r £16.74	s £94.16
t £0.81	u £10.50	v £22.75	w £0.30
x £3.14	y £2.36	z £553.31	

Percentage Increase & Decrease

Exercise 1 – Non Calculator Questions – Page 10

1 £65	2 £90	3 £45	4 £280
5 £40.50	6 300ml	7 1920g	8 £480
9 £2952	10 90g		

Exercise 2 – Page 10

1 84p	2 £1.80	3 £35.64	4 40800
5 9			

Exercise 3 – Calculator Questions - Page 11

1 a £297.50	b £91	c £595	d £19.25
e £11.85	f £714	g £591.68	h £4408
i £1.12	j £0.46	k £49.40	

- 2 a £448 b £756 c £13.68 d £264
 e £42.84 f £17.98 g £13.32 h £67.65

Exercise 4 – Page 12

- 1 £17160 2 £533 and £287 3 18 boys
 4 7227 5 £9345
 6 a £416kg b 208kg c 26kg
 7 £10.37 8 14 9 £306

Information Handling

Exercise 1 – Tables – Page 14

1

<i>Woodland</i>		
Creature	Tally	Number
Wood ant		11
Woodlice		13
Small fly		3
Caterpillar		2
Slug		4
Snail		1

<i>Healthland</i>		
Creature	Tally	Number
Wood ant		2
Woodlice		4
Small fly		7
Caterpillar		8
Slug		5
Snail		4

2 **Most popular – Apple**

- a Grape
 b No two the same
 c 6 people
 d 2 people
 e 25

Fruit	Tally	Total
Apple		8
Banana		6
Grape		2
Orange		5
Strawberry		4

f Apple, banana, orange, strawberry and grape

- 3 a Size 2 b Size 5
 c Size 5 d Size 1
 e 7 f 6
 g 27 h 2, 1, 3, 4, 5

Shoe Size	Tally	Total
1		7
2		10
3		6
4		3
5		1

Exercise 2 – Pictographs – Page 16

- 1 a** 15 **b** 10
2 a 350 **b** 250
3 a 3 **b** 29
4 a **b** 27

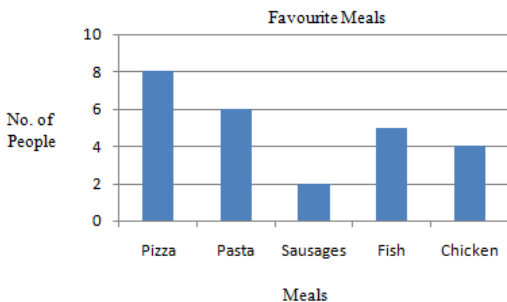
Flavour	Number of children
Blackcurrant	☺ ☺ ☺ ☺
Apple	☺ ☺ ☺ ☺ ☺ ☺
Grapefruit	☺ ☺ ☺
Orange	☺ ☺ ☺ ☺ ☺
Pineapple	☺

Exercise 3 – Bar Graphs – Page 20

- 1 a** Wednesday **b** Monday **c** 5 hours
2 a £30 **b** £55 **c** Ian **d** 7
3 a Italian Special **b** 5
c Spicy Meatball **d** 30
4 a 30 **b** World of Warcraft and Skyrim
c Pga Golf **d** 190
5 a 45 **b** Ashgill **c** 135 **d** 65
6 a 17 **b** 18
7 a Kylie **b** 180m
8 March to April - down 30 **May to June – up 10**

9

Meal	Frequency
Pizza	8
Pasta	6
Sausages	2
Fish	5
Chicken	4



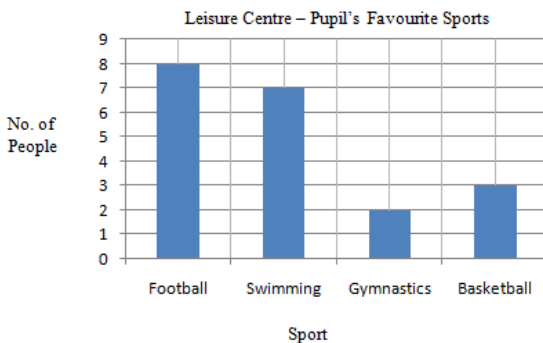
10

Shoe Size	Frequency
2	7
3	10
4	6
5	3
6	1



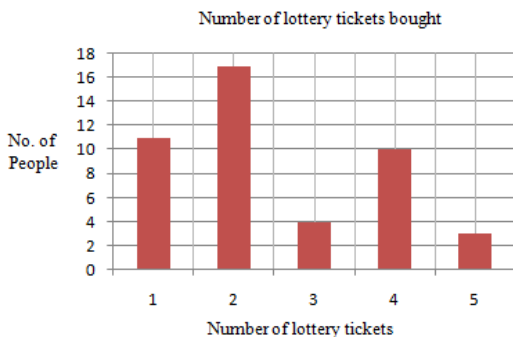
11

Sport	Frequency
Football	8
Swimming	7
Gymnastics	2
Basketball	3



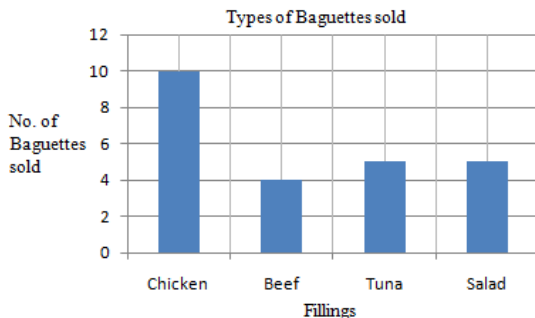
12

No. of lottery tickets	Frequency
1	11
2	17
3	4
4	10
5	3



13

Baguette Filling	Frequency
Chicken	10
Beef	4
Tuna	5
Salad	5

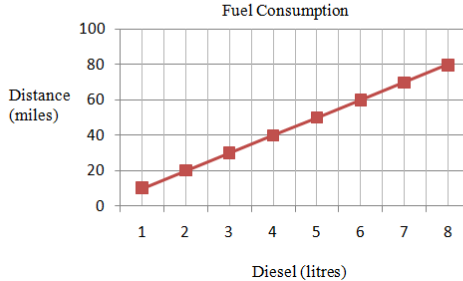


Exercise 4 – Line Graphs – Page 25

- 1 a 20° b 5° c 20° d 11.5°
 2 a May b January c 100 mm d 380mm
 3 a August b May c February and March

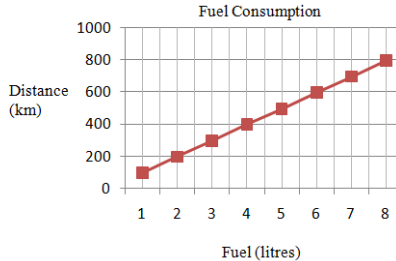
4

Diesel (litre)	1	2	3	4	5	6	7	8
Distance (miles)	10	20	30	40	50	60	70	80



5

Fuel (litres)	50	100	150	200	250	300	350	400
Distance (km)	100	200	300	400	500	600	700	800



Exercise 5 – Pie Charts – Page 30

- 1 a 50% b 30% c Walking d Exercise
 2 $100 - (36 + 25 + 34) = 5\%$
 3 $100 - (25 + 15) = 60\%$ so Each 30%
 4 a 25% b $100 - (30 + 35 + 25) = 10\%$ so Each 5%
 5 a 10% b 50% c 20%
 6 a i 25% ii 20% b 64% c 36%
 d i 12% ii 24%