M1.

Three different valid criticisms:
no key
Friday's drink bar is wrong/Friday should reach £70
Saturday's bars are the wrong way round/Thursday's and Friday's bars are the wrong way round

oe

B1 for each

B3

[3]

M2.

(a) **Alternative method 1**

360 – 171 or 189

M1

their 189 ÷ 3 or 63

M1dep

$\frac{63}{360}$ × 800 (= 140)

A1

Alternative method 2

$\frac{171}{360}$ × 800 or 380

M1

(800 – their 380) or 420

M1dep

420 ÷ 3 (= 140)

A1

Alternative method 3

140 + 280 or 420°

M1

$\frac{\text{their } 420}{800}$ × 360 or 189

oe

M1

360 – 180 = 171

A1

(b) Bar heights 380, 280 and 140

B1 for one correct bar height
or 280 seen or 380 seen

B2

Three bars with equal widths, equal gaps
and
correctly labelled vertical axis and bars labelled

B1

Consistent scale, starting at zero with at least two numbers given

Must be using a scale of at least 1 cm per 100 sales

B1

[7]

M3.

(a) 240 – 87.5(0) or 152.5(0)

M1

152.50

A1

(b) **Alternative method 1**

120 – 87.5(0) or 32.5(0)

M1

No and 152.5(0) ≠ 2 × 32.5(0)

oe

ft part (a)

A1ft

Alternative method 2

152.5(0) ÷ 2 + 87.5(0) or 163.75

M1

No and 163.75

oe

ft part (a)

A1ft

[4]

M4.

140 − 110

90 ÷ 3

or 30

or 1800 is 90°

or 1800 × 4

or 7200 seen

or 1800 ÷ 90

or 7200 ÷ 360

or 20

oe

90 ÷ 1800 or 0.05°

1800 may be in sector D but must see 90

M1

1800 ÷ 90 × 140 or 2800

or 1800 ÷ 90 × 110 or 2200

or 1800 ÷ 90 × 20 or 400

or 1800 ÷ 90 × 30

or 1800 ÷ 3

oe
140 ÷ 0.05 or 2800
or 110 ÷ 0.05 or 2200
or 20 ÷ 0.05 or 400
or 30 ÷ 0.05

M1dep

600

SC1 for 150

A1

Additional Guidance
1800 is ¼, 7200 is the whole circle

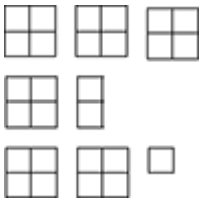
M1

1800 is ¼

M0

[3]

M5.(a)



For each row allow the correct number of squares / rectangles
B1 one or two correct rows
SC1

B2

(b) (comedy =) 10 or (romance =) 5
or (Tuesday total =) 17

M1

27 + 10 + 2 + 5

or

12 + 6 + 9 + 10 + 2 + 5 or 44

or

12 + 10 or 6 + 9 + 2 + 5 or 22

44 or 22 implies M2

M1

44 and 22 and Yes

or

22 and 22 and Yes

Strand (ii)

SC2 61 and 32 and No

Q1

[5]

M6.(a) 10 (ice creams) and 7 (lollies) chosen

B1

their 10 × 1.2(0) or 12(.00)

or their 10 × 120 or 1200

and

their 7 × 0.8(0) or 5.6(0)

or their 7 × 80 or 560

17.6 or 1760 or £17.60p implies B1 M1

M1

17.60

Strand (i)

ft correct answer with correct money notation for their 10 and their 7

SC2 16.40

SC1 16.4 or 12 or 5.60

Q1ft

(b) 10 + 7 + 15 + 18 or 50

Allow 1 error

M1

80 − their 50 or 30

Bars that total 30 or 80 − their 50

M1dep

Bars for 14 ice creams and 16 lollies

SC1 Bars with two more lollies than ice creams with no M marks awarded

A1

[6]

M7.(a) 24 (million) − 15 (million)

Subtraction with one value correct

M1

9

Condone 9 000 000

A1

(b) 30

Condone 30 000 000

B1

(c) 28(%) **and** 20 (million) chosen

oe

Implied by correct answer

B1

0.28 × their 20 **or** 20 × $\frac{\text{their } 28}{100}$

oe

their 20 can only be 15, 20, 24 or 26

their 28 can only be 12, 15, 28 or 45

M1

5.6

Digits 56 on answer space implies B1M1

Accept rounding to 6 after a correct answer is seen.

Condone 5600000

SC2 4.2 or 6.72 or 7.28

A1

[6]

M8.(a) Sight of one five bar gate

B1

All three tallies correct

B1

All three frequencies correct

ft their tallies

B1ft

(b) Suitable vertical scale with equal increments

B1

Bars on horizontal axis labelled

B1

Three correct bars with equal gaps

ft their scale

B1 for one or two bars of correct height (condone no or unequal gaps, and unequal widths)

B1 for a vertical line graph with three correct heights

SC2 for correct bar chart with labels for Chocolate (5), Vanilla (6) and Strawberry (4) with no more than one error

B2ft

[7]

M9.

(a) Correct values and correct use of 5 bar gate

QWC strand (i) correct notation

Q1

Archery 4, Biking 6, Horse riding 2, Karting 3

ft their tallies, or correct.

B1 ft

(b) Correct number of symbols for all 4 drawn.

Archery 2, Biking 3, Horse riding 1, Karting 1½

B1 for 3 correct.

B2 ft

(c) Biking

B1

(d) $\frac{2}{15}$

B1

[6]

M10.

(a) 9

B1

(b) 10

B1

(c) 2

B1

(d) **Alternative method 1**

(Class 1 total =) 4 + 7 + 12 + 8 or 31

Allow one error or omission

M1

(Class 2 total =) 6 + 5 + 9 or 20

Allow one error or omission

M1

(Class 2 Grade C =) 11

May be implied by correct height on graph.

A1

Rectangle drawn to their correct height

ft their 11
Height ± ½ small square
Width ± 1 small square
Condone if not shaded.

B1ft

Alternative method 2

Attempt at all 3 differences
6 − 4, 5 − 7, 9 − 12

(–)2, (+)2, (+)3, or (+)2, (–)2, (–)3
Allow one error.

M1

their 3 + 8

M1

11

May be implied by correct height on graph.

A1

Rectangle drawn to their correct height

ft their 11

)

Height ± ½ small square
Width ± 1 small square
Condone if not shaded.

B1ft

[7]