Answers Sheet

Average from Frequency Table

1.

No. of pets (x)	Frequency	fx
1	**4**	1 × 4 = 4
2	**7**	2 × 7 = 14
3	**0**	3 × 0 = 0
4	**9**	4 × 9 = 36
5	**2**	5 × 2 = 10
Total	**22**	**64**

Mean: fx / f

= 64 / 22 = 32 / 11

= 2.9

2.

Weight (x)	Frequency
6 to 12	**5**
13 to 18	**10**
19 to 24	**6**
25 to 30	**3**
31 to 36	**7**

Mode = 13 to 18 (most common)

Median = 19 to 24 or 6 + 6 / 2 = 6

3.

No. of test taken	Frequency	Fx
1	**7**	1 × 7 = 7
2	**12**	2 × 12 = 24
3	**9**	3 × 9 = 27
4	**8**	4 × 8 = 32
Total	**36**	**90**

Mean = 90 / 36 = **1.6**

Median = 2.5

4.

No. of points (x)	Frequency	fx
1	**6**	1 × 6 = 6
2	**3**	2 × 3 = 6
3	**4**	3 × 4 = 12
4	**2**	4 × 2 = 8
5	**3**	5 × 3 = 15
Total	**18**	**47**

Median = 3

Mode = 1

Total number of points scored = 6 + 6 + 12 + 8 + 15 = **47**

5.

Goals	Frequency	fx
0	**6**	0 × 6 = 0
1	**23**	1 × 23 = 23
2	**x**	2x
3	**5**	3 × 5 = 15

Fx = 0 + 23 + 15+2x = 38+2x

38+2x=42

2x=42-38

2x= 4

X=4/2

X=2

Put the value of x in frequency table = 2 × 2= fx**4**

6.

Height	Frequency	Mid points	fx
30 < h ≤ 40	**9**	35	9 × 35 = 315
40 < h ≤ 50	**14**	45	14 × 45 = 630
50 < h ≤ 60	**13**	55	13 × 55 = 715
60 < h ≤ 70	**4**	65	4 × 65 = 260
Total	**40**		**1920**

Mode = 40 < h ≤ 50

Median = 40 < h ≤ 50

Mean = 1920 / 40 = 48

7.

Goals	Frequency	fx
0	**7**	0 × 7 = 0
1	**10**	1 × 10 = 10
2	**11**	2 × 11 = 22
3	**4**	4 × 3 = 12
Total	**32**	**34**

Mode = 2

Median = 10 + 10 / 2 = 20 / 2 = 10

Mean = 34 / 32 = 1.06

8.

Points	Frequency	fx
1	**10**	1 × 10 = 10
2	**14**	2 × 14 =28
3	**x**	3x
4	**8**	4 × 8 = 32

Fx = 10 + 28 + 32 +3x

fx = 70 +3x

70+3x= 82

3x = 82-70

3x =12

x = 12 / 3

x = 4

Now put the values in frequency table = 3 × 4 = **12**

9.

Height	Frequency	Midpoints	fh
$20 < h \leq 25$	**6**	22.5	$22.5 \times 6 = 135$
$25 < h \leq 30$	**10**	27.5	$10 \times 27.5 = 275$
$30 < h \leq 35$	**9**	32.5	$9 \times 32.5 = 292.5$
$35 < h \leq 40$	**7**	37.5	$7 \times 37.5 = 262.5$
Total	**32**		**965**

Model class = $25 < h \leq 30$

Mean = $965 / 32 = 30.1$

Age	Frequency
18	**7**
19	**6**
20	**3**
21	**2**
22	**1**

Mode = 18

Median = $6 + 6 / 2 = 12 / 2$

= 6
