

Subtract $\frac{1}{2}$ mark for reducible fractions or incorrect rounding.
 Question marks: 4, 7, 6, 15, 5, 11, 16, 9, 9, 18

1. (a) **Simplify** $6x^3 + 8y - 7x^3 - 14y + 2x^3$ (2 marks)
 $x^3 - 6y$
 1 mark per term

- (b) **Evaluate** $\frac{y^2}{x^2}$ when $y = 2$ and $x = 4$. (2 marks)
 $\frac{2^2}{4^2} = \frac{1}{4} = 0.25$
 2 marks soln, 1 mark working but incorrect soln

2. (a) What is the equation of the line passing through the point $(-4, 3)$ with gradient $\frac{1}{2}$? (3 marks)
 $3 = \frac{1}{2} \times -4 + c$ (1 mark)
 $c = 4$ (1 mark)
 $y = \frac{1}{2}x + 4$ (1 mark)
- (b) Solve the simultaneous equations (4 marks)

$$\begin{array}{rcl} x - 2y & = & -2 \\ x - y & = & -4 \end{array}$$

$$\begin{array}{rcl} y & = & -2 \\ x & = & -6 \end{array}$$

(2 marks)
 (2 marks)

3. A farmer keeps track of how many eggs his hens lay.

2	2	4	3	5	4	4	2	4
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- (a) What is the mode? (1 mark)
 Mode is 4.
- (b) What is the median? (2 marks)
 Ordered data:

2	2	2	3	4	4	4	4	5
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 $9 \times \frac{1}{2} = 4.5$
 Median=4
 1 mark ordered table 1 mark median
- (c) What is the interquartile range? (3 marks)
 $9 \times \frac{1}{4} = 2.25$
 $Q_1 = 2$ (1 mark)
 $9 \times \frac{3}{4} = 6.75$
 $Q_3 = 4$ (1 mark)
 $IQR = 4 - 2 = 2$ (1 mark)

4. Sloths should have a mean of 16.5 hours sleep a day. A sloth owner wants to see if his sloths are sleeping too much and collects the following data.

17	18	20	19	16
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- (a) State the null hypothesis and the alternative hypothesis. (2 marks)
 $H_0: \mu = 16.5$
 $H_1: \mu > 16.5$
 1 mark for 16.5, 1 mark for $>$, -1 mark if no μ

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S Ashworth



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