Day 5 Answers

Task 1	Task 2	Task 3	Task 4
Developing/ Expected	**Arithmetic**	**Problem Solving**	**Reasoning**

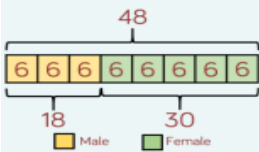## Task 1 (Developing/ Expected)

Pie charts (page 54)

1 a) $\frac{3}{4}$ b) 90

c) YES, supported by an explanation that shows clearly that $\frac{1}{4} + \frac{1}{4} = \frac{1}{2}$

2 a) $\frac{3}{8}$ b) £30   c) £30

Practice task

Pie charts (page 56)

1 Award **2 marks** for correct answer (accept 2° margin of error).
Award **1 mark** for a correctly constructed pie chart but with labels missing.

2 a) 65   b) 780
3 a) 1,600   b) 200   c) 300

Line graphs (page 57)

1 a)

Distance (km)	1	2 or 5.5	3.75 or 4.75	4	5.5
Height (m)	375	625	875	937.5	625

b) 2.5
2 a) 3.75 million
b) 1.375 million (accept a value greater than 1.3 million but less than 1.4 million)
c) Accept more people are at work during the day so the number of viewers at 1 p.m. will be fewer or more people are at home in the evening and at work during the day or a similar explanation.

Task 2 (Arithmetic)

8.   13 402

9.   64

10.   1290

11.   160

12.   50.14

13.   2193

14.   30

Task 3 (Problem Solving)

Task 1

Award **TWO** marks for only two correct boxes ticked, as shown:

There are more cheetahs than jaguars.	✓
The total number of lions and tigers is 10	
One-quarter of the big cats are cheetahs.	✓
There are more than 5 jaguars.	

Award **ONE** mark for:

- only one correct box ticked and no incorrect boxes ticked

OR

- two correct boxes ticked and one incorrect box ticked.
  Accept alternative unambiguous positive indications, e.g. Y.

Task 2

Indicates all four correctly, ie:

✓
✗
✗
✓

! Incomplete response
For 2 marks, do not accept any box left blank
! Other indication
Accept any unambiguous indication, eg:
- 'Y' for ticked

or

Indicates any three correctly

Task 4 (Reasoning)

Task 1

Summer is a quarter of the whole pie chart and there are 4 quarters in a whole, so $48 \times 4 = 184$ people in total.

Task 2

$\frac{1}{2}$ of 96 = 48

$\frac{1}{4}$ of 96 = 24

$\frac{1}{8}$ of 96 = 12

12 people voted cats.

48 people voted dogs.
$\frac{1}{8}$ of 48 = 6
$6 \times 3 = 18$.
18 females voted for dogs.

48

6	6	6	6	6	6	6	6

18   30

□ Male   □ Female

Task 3

No siblings	15
1 sibling	27
2 siblings	30
3 siblings	51
4 siblings	84
5 siblings	93
Total	300

Task 4

Jack is incorrect because the same amount of girls and boys like maths.

Boys:
50 % of 120 = 60

Girls:
60 % of 100 = 60

Day 5 Answers

Task 3

(a) Answer in the range $\frac{13}{100}$ to $\frac{1}{5}$ inclusive

Range includes $\frac{1}{6}$ and $\frac{1}{7}$
Accept decimals or percentages.
(0.13 to 0.2 inclusive)
(13% to 20 % inclusive)

(b) Answer in the range 500 to 800 inclusive