1.
The below bar chart shows the number of pies sold at a market on Monday to Friday in Week 1.
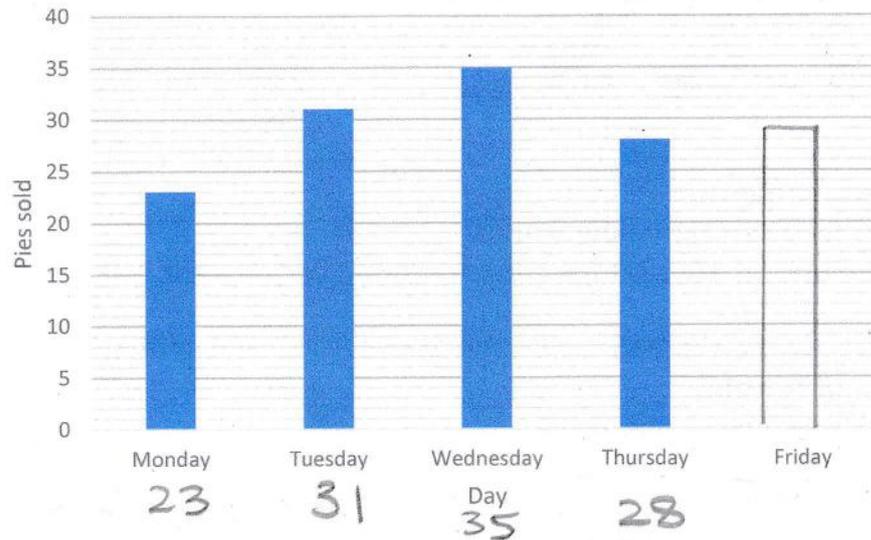
23   31   35   28

(a) How many more pies were sold on Tuesday than on Monday?

$$31 - 23 = 8$$

(1)

(b) There were 146 pies sold in total from Monday to Friday in Week 1.
Use this information to complete the bar chart.

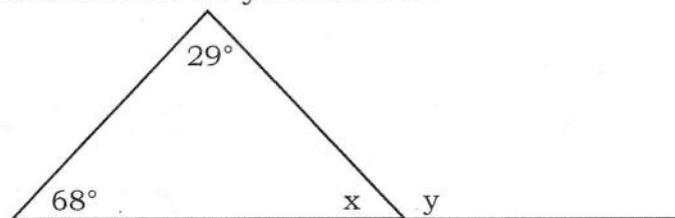$$146 - 23 - 31 - 35 - 28 = 29$$

(2)

(c) In Week 2, 34 pies were sold on average each day.
In which week were more pies sold – Week 1 or Week 2?

$$34 \times 5 = 170$$

Week 2

(2)

2.
Find x and y. Give reasons for your answer.

$$68 + 29 = 97$$
$$180 - 97 = 83$$
$$180 - 83 = 97$$

$x = 83°$ because angles in a triangle add to 180°.
$y = 97°$ because angles on a straight line add to 180°.

(3)

3.
Find the mean, mode, median and range of the following numbers:

12   16   11   11   9   8   18

mean = (12+16+11+11+9+8+18) ÷ 7 = 12.142857
mode = 11
median = 8,9,11,11,12,16,18 = 11
range = 18−8 = 10

(4)

4.
Janice works for a supermarket.
She earns £7.50 for each hour she works.
On Sunday, she earns a 10% bonus for each hour she works.

Last week, Janice worked 8-hour shifts on Monday, Wednesday and Friday. She also worked 6 hours on Sunday.
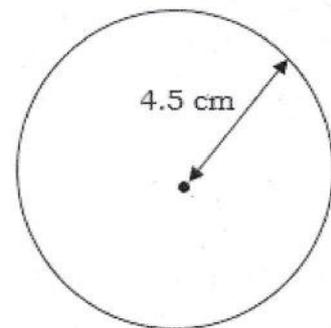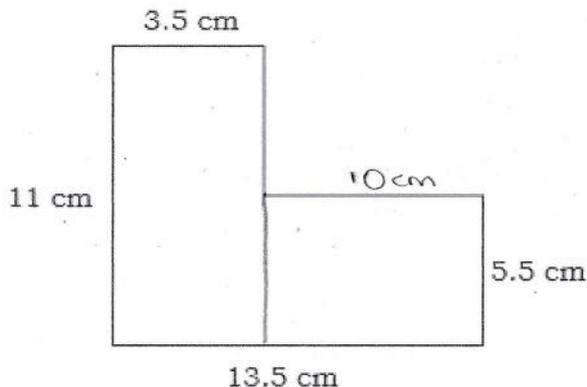Work out Janice's pay from last week.

7.50 × 24 = £180
10% of 7.50 = 0.75
7.50+0.75 = 8.25
8.25 × 6 = £49.50

180 + 49.50
= £229.50

(3)

5.
Work out the total area of the two below shapes, to the nearest square centimetre.

3.5 cm
11 cm
10 cm
5.5 cm
13.5 cm

4.5 cm

3.5 × 11 = 38.5
5.5 × 10 = 55
38.5 + 55 = 93.5 cm²

π × 4.5² =
63.61725... cm²

93.5 + 63.61725... = 157.11...
= 157 cm²

(5)