

1 Work out $8.46 \div 0.15$

.....
(Total for Question 1 is 3 marks)

2 Jonny wants to know how much coffee he will need for 800 people at a meeting.

Each person who drinks coffee will drink 2 cups of coffee.
10.6 g of coffee is needed for each cup of coffee.

Jonny assumes 68% of the people will drink coffee.

- (a) Using this assumption, work out the amount of coffee Jonny needs.
Give your answer correct to the nearest gram.

..... g
(4)

Jonny's assumption is wrong.
72% of the people will drink coffee.

- (b) How does this affect your answer to part (a)?

.....
.....
.....
(1)

(Total for Question 2 is 5 marks)

3 Lava flows from a volcano at a constant rate of $11.9\text{m}^3/\text{s}$

How many days does it take for $67\,205\,600\text{m}^3$ of lava to flow from the volcano?
Give your answer correct to the nearest day.

..... days

(Total for Question 3 is 3 marks)