

52 Formal Homework 1

Core Section

 Round the following numbers to 2 decimal place
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a. 4.572

b. 33.208

c. 88.8982

2. Convert the following measurements to centimetres:

a. 5.6m

b. 210mm

c. 7.26km

3. Write the number 72 as a product of prime factors.

4. The table below represents the number of air stewards(S) on a British Airways flight required for a specific number of passengers (P).

S	3	4	5	6	
Р	64	84	104	124	

a. Find a formula for the table above.

b. On a long haul flight, 14 air stewards are on the flight. What is the maximum number of passengers allowed on the flight?

5. Evaluate the following expressions where g = 5, h = 2 and i = -3:

b.
$$hi^2 + (g - i)^2$$

6. Multiply out the following brackets and simplify:

a.
$$5(2x - 3)$$

d.
$$3p(p-2) - 5p(p-4) + 7p$$



Extension Section

- 1. A survey of a sample of pupils attending a summer club on the first day was taken. 6 boys and 4 girls took part in the survey.
 - a. Write this as a ratio, in its simplest form.
 - b. If there were 330 boys at the club on the first day, how many girls were there?

On the final day of the summer club there were 675 children in total.

- c. If the ratio was the same on the final day as the first day, calculate how many boys attended.
- 2. A rectangle is shown below.



- a. Find a simplified expression for the perimeter of the shape.
- b. Find a simplified expression for the area of the shape.

The perimeter of the shape is found to be 72cm.

c. Hence, by creating an equation, solve for the value of i.