Lesson 2

Ratio : GCSE

Non - Calculator Throughout

2.1 Exercise

Question 1

Cancel down the following ratios as far as possible by removing common factors

(i) 6 : 27

(ii) 8 : 26

(iii) 5 : 60

(iv) 15 : 35

(v) 70 : 7000

(vi) 12 : 10

(vii) 66 : 33

(viii) 20 : 24

(ix) 18 : 22

(x) 54 : 63

(xi) 100 : 108

(xii) 14 : 70

Question 2

Patricia receives a Birthday gift of £90.
She decides to split it between

Make-up : Hair Products : Perfume

in the ratio

3 : 2 : 5

(i) How much does Patricia spend on Make-up ?

(ii) How much does Patricia spend on Hair Products ?

(iii) How much does Patricia spend on Perfume ?

Question 3

Philip has £600 to give away to charity.
He decides to split it between

Homeless : Cancer Research : Food Bank

in the ratio

8 : 4 : 3

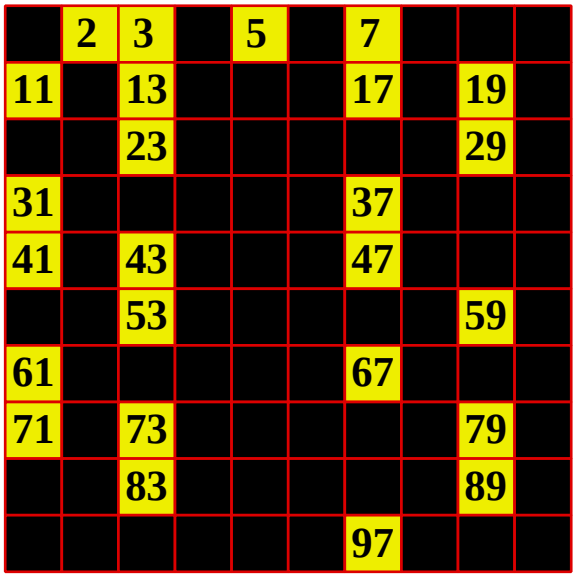
(i) How much does Philip give to the Homeless ?

(ii) How much does Philip give to Cancer Research ?

(iii) How much does Philip give to the Food Bank ?

Question 4

P R I M E S
L E S S
T H A N
1 0 0



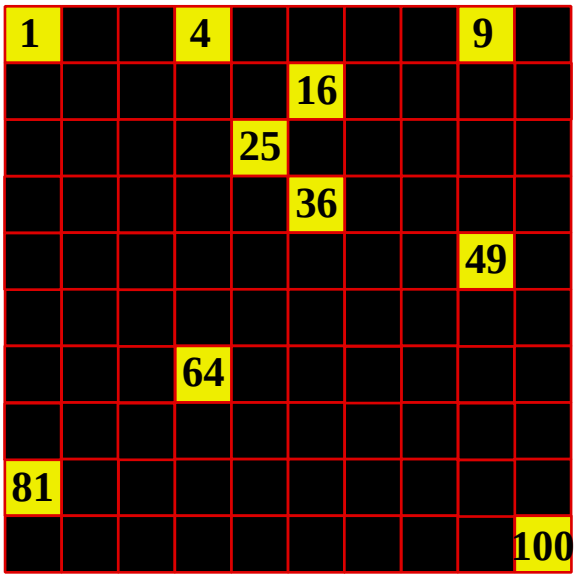
In the first 100 integers, what is the ratio of

prime : non-prime

You should cancel down this ratio as far as possible by removing any common factors

Question 5

Square
Numbers
Up To
1 0 0



In the first 100 integers, what is the ratio of

square : non-square

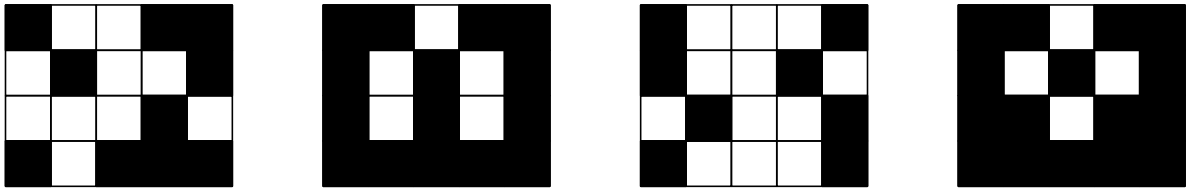
You should cancel down this ratio as far as possible by removing any common factors

Question 6

Underneath each diagram write down the ratio of

black squares : *white squares*

Cancel down each ratio as far as possible by removing any common factors

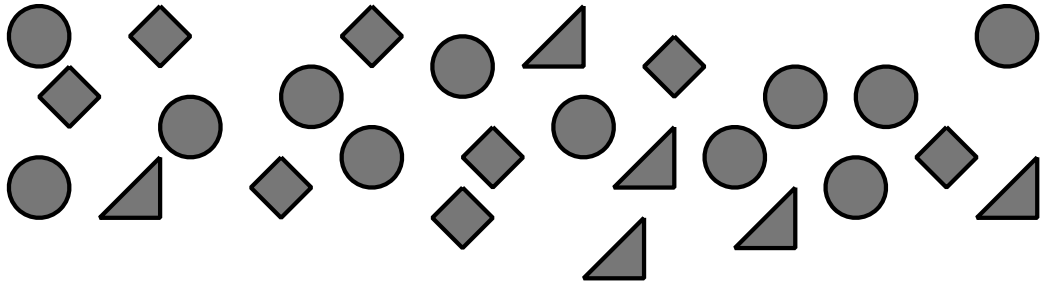


Question 7

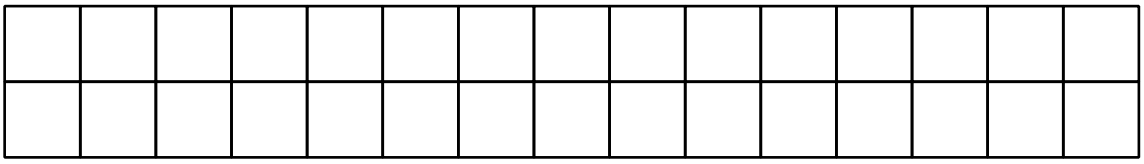
Underneath the diagram write down the ratio of

squares : *circles* : *triangles*

Cancel down each ratio as far as possible by removing any common factors



Question 8



Shade in the squares so that the ratio of

shaded : *unshaded*

is 3 : 2

Question 9

Cancel down the following ratios as far as possible by removing common factors

(i) 9 : 15 : 21

(ii) 14 : 20 : 22

(iii) 70 : 50 : 60

(iv) 44 : 88 : 60

(v) 3000 : 4000 : 7000

(vi) 55 : 15 : 25

(vii) 42 : 70 : 56

(viii) 36 : 40 : 18

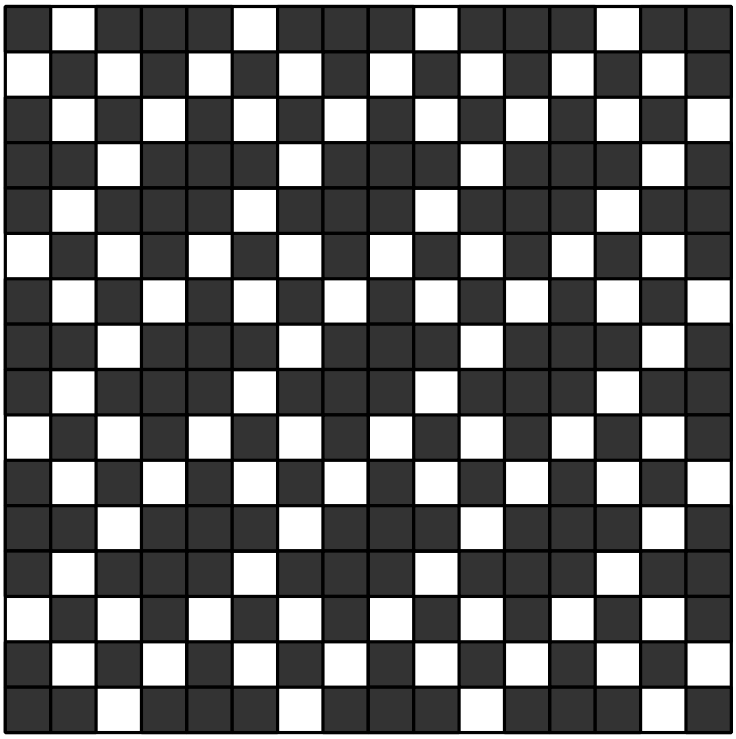
(ix) 16 : 64 : 48

(x) 360 : 270 : 180

(xi) 105 : 45 : 60

(xii) 18 : 45 : 72

Question 10



What is the ratio of

shaded : *not shaded*

in the above diagram ?