

S2 Homework 13

No calculator allowed!!

- 1) 50% of 884 2) 25% of 644 3) 75% of 1248 4) 10% of 5697

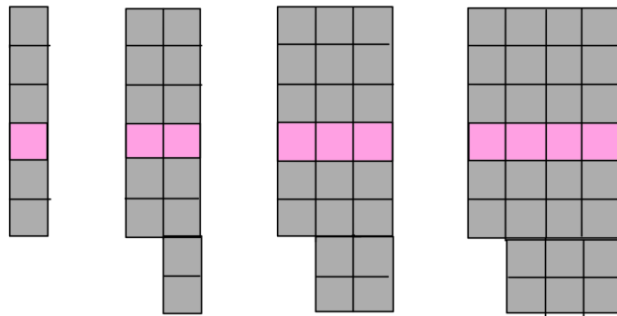
Revision of S1 work

- 5) Round these numbers to two decimal places: -
 a) 0.456789 b) 1.2323232 c) 37.686968 d) 9.9999999
- 6) A truck travels 246 km in three hours. Calculate its average speed.
- 7) A motorcycle on a test track travels at a steady 56mph for five hours. How far has the motorcycle travelled?
- 8) How long will it take at train to travel 720km if this train travels at an average speed of 90km/h?

S2 work

- 9) Multiply out the brackets: -
 a) $3(x + 2)$ b) $4(2y - 3)$ c) $5(2a + 3b + 4c)$ d) $a(a + b)$

- 10) a) Look at the patterns below, then copy and complete the table: -



Number of pink squares (P)	1	2	3	4	5	6
Number of grey squares (G)						

b) Write a formula for the number of grey squares, given the number of pink squares

$$G = \underline{\hspace{2cm}}$$

c) Use the formula to calculate how many grey squares there will be in a pattern which has nine pink squares.

d) Use the formula to calculate how many pink square will there be in a pattern which has 82 grey squares.

UK Junior Maths Challenge Question

Gill scored a goal half way through the second quarter of a 'teachers versus pupils' netball match. At that point, what fraction of the whole match remained to be played?

A $\frac{1}{4}$

B $\frac{3}{8}$

C $\frac{1}{2}$

D $\frac{5}{8}$

E $\frac{3}{4}$