S1 Homework 31

1 Copy and complete this table: -

Fraction	1/2					
Decimal		0.25		0.1	0.17	
Percentage			75%			9%

2 Solve these equations:-

a)
$$7x = 56$$

b)
$$x - 67 = 0$$

c)
$$3x + 9 = 36$$

d)
$$7x + 7 = 7$$

3 A shopkeeper is checking his stock. He has only 6 cans of soup left on the shelves but he has three full boxes of cans of soup in his storeroom. He has 150 cans of soup altogether.

Write an equation for this situation using **b** for the number of cans of soup in a

Solve the equation to find how many cans of soup are in a box, b)

A car on a test track is driven flat out at its top speed of 144mph for 15 minutes. 4

What distance does the car cover in this time?

b) The test track is circuit with a length of 8 miles. How many laps of the circuit does the car complete?

5 In a school the ratio of boys to girls is 3:2. If there are 180 boys, how many girls are there?

6 If c = 6 and d = 7, calculate: -

a)
$$10c + 5d$$

b)
$$c^2 + d^2$$

c)
$$c^2 + 5c + 10$$

b)
$$c^2 + d^2$$
 c) $c^2 + 5c + 10$ d) $d^2 - 5d + 20$

7 A group of four friends pay £18.00 to see a film in a cinema. How much would it cost a group of seven to see the same film in the same cinema?

8

a) $\frac{1}{2} - \frac{2}{7}$ b) $\frac{3}{7} + \frac{1}{5}$ c) $\frac{5}{6} - \frac{3}{4}$ d) $\frac{2}{3} + \frac{1}{8}$

[Junior Kangaroo 2015 Q1] Ben lives in a large house with his father, mother, sister and brother as well as 2 dogs, 3 cats, 4 parrots and 5 goldfish.

How many legs are there in the house?