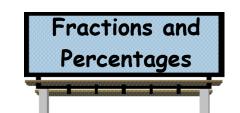## S1 Level 3 Formal Homework
(Show all working!)

Non Calculator Section:
If working is not shown for this section then no marks will be awarded.

1.   a) 12.6 × 30   b) 15.26 + 142.7   c) 1976 - 1587

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2.   Write each fraction in its simplest form:

(a) $\dfrac{5}{25}$ (b) $\dfrac{8}{30}$ (c) $\dfrac{160}{480}$ (d) $\dfrac{17}{68}$

3.   Find:

(a) $\dfrac{2}{3}$ of 24   (b) $\dfrac{3}{8}$ of 648

4.   Change each fraction to a percentage:

(a) $\dfrac{8}{25}$ (b) $\dfrac{12}{40}$

5.   **Without a calculator** find:- (working must be shown to gain marks)
(a) 40% of 250kg   (b) 15% of £120

6.   **Using a calculator** find:-
(a) 38% of 190 cm   (b) 17% of £33

7.   Of the 380 goals scored in a season, 57 of them were scored by penalties.
(a)   What percentage of the goals scored were penalties?
(b)   Of the goals scored 60% of them were scored at home. How many goals were scored at home?

8.   Calculate:

(a) $\dfrac{5}{8} + \dfrac{1}{6}$ (b) $3\dfrac{5}{9} - 1\dfrac{2}{3}$ (c) $4\dfrac{1}{6} \times 1\dfrac{4}{5}$ (d) $4\dfrac{1}{5} \div 1\dfrac{2}{3}$

Revision Section:

9.   Find the value of:-
(a) 23 + (-40)   (b) (-24) + (- 12)   (c) (-15) – (-20)

10.   Round each number to   (i) 1 significant figure   (ii) 2 significant figures
(a) 32.94   (b) 0.0683