Monifieth High School Mathematics Department

S2 Homework 18

No calculator allowed!!

Evaluate: -

1) 5^2 **2)** 10^2 **3)** 7^3 **4)** 5^4

Revision of S1 work

5) **a)** $\frac{1}{2}+\frac{1}{8}$ **b)** $\frac{1}{6}+\frac{3}{4}$ **c)** $\frac{5}{7}-\frac{3}{5}$ **d)** $\frac{7}{10}-\frac{3}{5}$

6) Write as mixed numbers (e.g. $\frac{13}{5}=2\frac{3}{5}$), simplifying if possible.

a) $\frac{9}{4}$ **b)** $\frac{20}{6}$ **c)** $\frac{30}{8}$ **d)** $\frac{32}{10}$

7) Write as improper (top-heavy) fractions (e.g. $2\frac{3}{5}=\frac{13}{5}$).

a) $2\frac{1}{5}$ **b)** $3\frac{2}{7}$ **c)** $3\frac{1}{9}$ **d)** $4\frac{3}{10}$

S2 work

8) Factorise: -

a) $7x+28$ **b)** $10x-25$ **c)** $20x+35y+10z$ **d)** $cd+3d$

9) Write these numbers in standard form: -

a) 232 000 **b)** 47 000 000 000 **c)** 0.000 364 **d)** 0.000 000 088

10) Write these numbers in "ordinary" form: -

a) 7.89×10^5 **b)** 7.89×10^{-5} **c)** 6.1×10^7 **d)** 6.1×10^{-3}

UK Junior Maths Challenge Question

Alex has a pile of two pence coins. She swapped exactly half of them for the same number of 10p coins. Now she has £4.20. How much money did Alex have initially?"

A 42p B 84p C £1.12 D £1.40 E £1.68