

S3 General – Homework 1

Non-calculator section:

1. Calculate

(a) $2.1 - 1.86$

(b) 3.14×50

(c) $21.5 \div 500$

(d) 40% of £320

(e) 65% of £6800

(f) $66\frac{2}{3}\%$ of £540

(g) $\frac{5}{8}$ of 640 kilograms

2. Find

(a) $-6 + 15$

(b) $-3 - 10$

(c) -7×-5

(d) $40 \div (-5)$

3. 260 university students sit an English exam. 65% of the pupils pass the exam. How many students is this?

4. £40 is to be made up using a mixture of £5, £10 and £20 notes. Copy and complete the table below to show how this could be done.

£5	£10	£20
8	0	0

Calculator section:

5. Given $a = 3.5$, $b = 4.8$ and $c = 3.2$, calculate

(a) $3a + 5b$

(b) $b^2 - c^2$

(c) $a(b + 2c)$

(d) $\frac{a + 10c}{b}$

6. The heights above or below sea level of 4 different places are given below.

Place	Height(metres)
Abeville	145
Betown	34
Seburgh	-65
Daughy	-12

(a) What is the difference in height between Betown and Daughy?

(b) What is the difference in height between Abeville and Seburgh?

7. $P = u^2 + 2as$. Calculate P when $u = 31.5$, $a = 14.2$ and $s = 12$