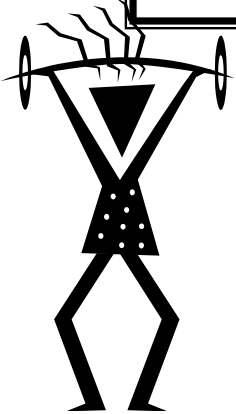


# Mathsercise

Revision Practice  
for Target C grade  
GCSE Number





Estimate the value of:

$$\frac{79.7}{2.13 \times 7.85}$$



Estimation **1**

Estimate this...

$$\frac{14.74 \times 19.3}{6.076 + 3.85}$$



Estimation **2**

The length of a newly born is 56cm (to the nearest cm)

a) What is the longest length it could have been?

b) What is the shortest length it could have been?



Estimation **3**

The weight of a car is 843kg (to the nearest kg)

a) What is the heaviest the car could be?

b) What is the lightest the car could be?



Estimation **4**



# Mathsercise-C

## Factors & Multiples

List all the factors of 48....



Factors & Multiples **1**

If the product of the primes is ....

$$2 \times 2 \times 3 \times 5$$

What is the number?



Factors & Multiples **2**

What is the Highest Common Factor (HCF) of 16 and 40?



Factors & Multiples **3**

What is the Lowest Common Multiple (LCM) of 12 and 18?



Factors & Multiples **4**



# Mathsercise-C

FDP

Work out 0.8 as a fraction



F,D,P **1**

Write 30% as a decimal



F,D,P **2**

Put these in order of size,  
starting with the smallest;

$\frac{1}{4}$  0.3 28%  $\frac{2}{5}$



F,D,P **3**

Express  $\frac{16}{64}$  as a percentage



F,D,P **4**



Work out:

$$\frac{1}{2} \times \frac{4}{5}$$

Give your answer in its simplest form



Fractions **1**

Work out:

$$\frac{1}{8} + \frac{3}{4}$$



Fractions **2**

Work out:

$$\frac{2}{3} \div 4$$



Fractions **3**

Work out:

$$1\frac{2}{3} \div 1\frac{4}{5}$$



Fractions **4**



# Mathsercise-C

## Money

A class go on a visit by train.  
Each ticket costs £2.45  
How much will 27 tickets cost?



Money **1**

The weight of a box is 17.6kg.  
What is the weight of 38  
boxes?



Money **2**

£1 = 1.47 euros

An ipod costs 118 euros in Spain.  
The same ipod costs £79.50 in  
Birmingham. Which is the best  
value?



Money **3**

£1 = 2.15 Australian Dollars

What is the value of Aus \$800  
in pounds?



Money **4**



Increase £350 by 10%



Percentages **1**

**Sale 20% off**

How much would a jacket priced at £90, cost in the sale?



Percentages **2**

The cost of a CD player is £200 + vat. The rate of vat is 17.5%.

What is the cost of the CD player?



Percentages **3**

A house cost £50,000 three years ago. I sold it for £90,000. What percentage profit have I made?



Percentages **4**



I spend 35% of £600.  
How much money have I  
got left?



Percentages 2 **1**

There were 250 pupils in  
Year 10. 120 of these were  
girls.  
What is this as a percentage



Percentages 2 **2**

In the MIF kitchen sale, there  
is 20% of every kitchen.

I paid £1200 for my kitchen  
units.

What was their price before  
the sale?



Percentages 2 **3**

**WOW TV/DVD Player**  
**30% off**  
**New Price £126**

What was the price  
before the sale?



Percentages 2 **4**





# Mathsercise-C

## Place Value

Using the information that

$$14 \times 23 = 322$$

Write down the value of..

(i)  $1.4 \times 2.3$

(ii)  $322 \div 2.3$



Place Value **1**

Using the information that

$$58 \times 117 = 6786$$

Write down the value of..

(i)  $0.58 \times 117,000$

(ii)  $67.86 \div 5.8$



Place Value **2**

Using the information that

$$11 \times 19 = 209$$

To find the Lowest Common Multiple (LCM) of 33 and 19



Place Value **3**

Using the information that

$$39 \times 17 = 663$$

To find the Lowest Common Multiple (LCM) of 13 and 17



Place Value **4**



If 8 pens cost 72p, how much do 5 pens cost?



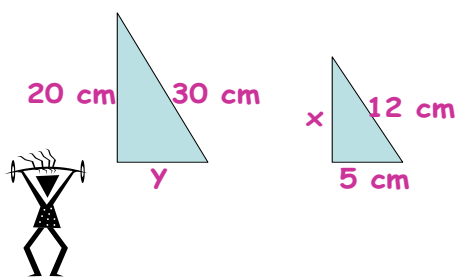
Proportion **1**

If 3 coffees cost £4.17, what would 7 coffees cost?



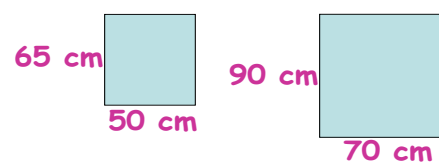
Proportion **2**

These two triangles are similar. Find the lengths of  $x$  and  $y$



Proportion **3**

A photo is enlarged as shown..



Show that these two rectangles are **not** similar



Proportion **4**



# Mathsercise-C

## Ratio

Share £250 in the ratio 3:7



Ratio **1**

Ann and John share £140 in the ratio 2:5.  
How much does Ann receive?



Ratio **2**

Andy, Belinda and Carl share £126 in the ratio 5:3:1.  
How much does Belinda get?



Ratio **3**

When Bill reached his 100<sup>th</sup> birthday he had 12 grand-daughters and 20 grandsons.

Write down the number of grand-daughters to the number of grandsons as a ratio in its simplest form



Ratio **4**



# Mathsercise-C

## Ratio & Fractions

Share £720 in the ratio 5:1



Ratio & Fractions **1**

Share £320 in the ratio 1:3:4



Ratio & Fractions **2**

Work out...

$$\frac{3}{4} - \frac{2}{3}$$



Ratio & Fractions **3**

Express ...

$$\frac{5}{8} \times \frac{2}{9}$$

..in its simplest form



Ratio & Fractions **4**



# Maths exercise-C

## Rounding

Estimate the value of:

$$\frac{79.7}{2.13 \times 7.85}$$



Rounding **1**

Estimate this...

$$\frac{14.74 \times 19.3}{6.076 + 3.85}$$



Rounding **2**

Write each of these numbers correct to 1 significant figure..

- a) 26,366
- b) 0.0004349
- c) 45,071
- d) 0.050869



Rounding **3**

Work out the value of:

$$\frac{6.2 - 7.1^2}{0.7}$$

- a) Write all of the figures on the calculator display
- b) Write down your answer correct to 2 decimal places



Rounding **4**



# Maths exercise-C

Standard  
Form

a) Write  $2.7 \times 10^3$  as an ordinary number

b) Write  $3.12 \times 10^{-3}$  as an ordinary number



Standard Form **1**

a) Write 38,500,000 in standard form

b) Write 0.000005 in standard form



Standard Form **2**

a) Write half a million in standard form

b) Write 0.00000036 in standard form



Standard Form **3**

Work out the value of  $0.03 \times 0.02$

a) Write the answer as an ordinary number

b) Write the answer in standard form



Standard Form **4**