

Level 2 Functional Skills - End of Term Assessment 1

Number and Bodmas

- Read, write, order and compare positive and negative numbers of any size
- Carry out calculations with numbers up to one million including strategies to check answers including estimation and approximation
- Follow the order of precedence of operators, including indices

Please check the examination details below before entering your candidate information

Candidate surname

Other names

**Pearson Edexcel
Functional Skills**

End of Term Assessment 1

Time:

20 minutes then 30 minutes

Mathematics

Level 2

You must have:

Pen, HB pencil, eraser, ruler graduated in cm and mm, protractor, pair of compasses. Tracing paper may be used.

Total Marks

35

Non-Calculator Section



1) Write '1,840,509 miles' in words

(1)

2) James sees this advert for an apprenticeship.

Apprentice Bricklayer

£7.90 per hour
37 hours per week

James will be paid for 52 weeks of the year.

(3)

He estimates that he will have an annual salary of £16,000

Use estimation to check if James estimate is sensible.
You **must** show your working.

3) a) Complete the sum

$$4 \times 3 + 8 / 2$$

(1)

b) Use rounding to estimate

$$44,000 + 29,000 \times 9$$

(2)

c) Order the follow, starting with the highest value

-£18,500

£18,000

-£1,800

£15,800

(2)

4) a) Simplify

$$2^2 \times 2^3 \times 2 \times 2^2$$

(1)

b) Find the value of

$$\frac{90,000}{3^2}$$

(1)

c) Order the following, smallest first

£0.6M

£3.26M

£897K

£980K

(2)

Calculator Section



1) A worker is calculating yearly sales figures for various companies.

Company A 36 weeks sales x £2470 total for the week

Company B 48 weeks sales x £3754 total for the week

Company C 44 weeks sales x £2955 total for the week

(4)

The worker follows a rule to find each companies estimated sales figures for the year.

Round **all** figures to 1sf

then

multiply the 'weekly sales' x

'total for the week'

Find the difference between the estimates for the company that made the most value in sales to the one with the least.

2) Use your calculator to find

$$3^3 \times 4^2 \times 25,000$$

(2)

3) a) A factory manager is needing to find out the number of employees required to complete a job. The manager has this information about the job.

32,840 hours of work needing to be completed

35 hours of work per person

(3)

The manager completes a sum and thinks 930 employees will be required. Show if the managers sum is correct.

b) Show a check of your answer to part a)

(1)

3) Write the **answer** to the sum $15^2 + 18,960 - 3.2K$ in words.

(2)

4) Arron is a event's organiser. He is given this information.

Last years' ticket sales	281,947
This year's ticket sales	Target: must be 37k more tickets this year than last
Next year's ticket sales	Target: 38,500 more tickets than this year

Using the information, Arron decides he will need to increase ticket sales **this year** by at least 6000 per week.

a) Show if Arron's **estimation** is sensible for this year.

(2)

b) Find the difference between **next year's** ticket sales and **last year's**.

(2)

5) A factory mixes chemicals to make products.

Chemical	Quantity	Chemical	Quantity
CO ₂	15,270L	Ru	89,430L
Mg	23,590L	Ce	17,995L
Ds	31,450L	Sn	44,550L

A product is to be made using >

$2 (Sn + Mg)$

Then it is mixed by adding >

+ Ru

Then removing >

$- 3 (Ds + Ce)$

Find, in Litres, the amount of the produce made using the above formula

(6)