



Maths-it Podcast F-07

Foundation GCSE Revision

Calculations, (mental, written and using a calculator)

Topics

Number problems without a calculator – Long multiplication and division
Using a calculator efficiently

Questions

1. The chart below shows the distances, in km, between pairs of cities in France by the fastest route. For example, the distance between Boulogne and Paris is 302 km by the fastest route.



Boulogne			
760	Lyon		
302	512	Paris	
757	163	523	Annecy

- (a) Write down the distance between Lyon and Annecy by the fastest route.

..... km

(1)

Françoise drove from Boulogne to Lyon by the fastest route and then she drove from Lyon to Annecy by the fastest route. Sebastian drove directly from Boulogne to Annecy by the fastest route.

- (b) Work out how many more kilometres Françoise travelled than Sebastian.

..... km

(3)

(Total 4 marks)

2. James bought 7 oranges. He paid £1.54.
The cost of each orange was the same.
Work out the cost of 3 of these oranges.



..... p

(Total 2 marks)



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3. (a) Work out the value of $(6 + 2) \times 7 + 3$



..... (1)

(b) Add brackets () to make each statement correct.
You may use more than one pair of brackets in each statement.

(i) $6 + 2 \times 7 + 3 = 26$

(ii) $6 + 2 \times 7 + 3 = 80$

(2)
(Total 3 marks)

4. Work out 349×62



..... (Total 3 marks)

5. Phil takes 32 concrete fence posts from a lorry.
The weight of each fence post is 71.4 kg.

(a) Work out the **total** weight of the 32 posts.

..... kg (3)

Then Phil stacks large paving slabs onto a pallet.
The weight of each slab is 14 kg.
The greatest weight the pallet can hold is 240 kg.

(b) Work out the greatest number of slabs that the pallet can hold.

..... (4)
(Total 7 marks)



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6. (a) Use your calculator to work out $(9.3 - 0.709)^2 \times 0.97$

Write down all the figures on your calculator display.

.....

(2)

- (b) Put brackets in the expression below so that its value is 45.024

$$1.6 + 3.8 \times 2.4 \times 4.2$$

(1)

(Total 3 marks)

7. Use your calculator to work out the value of $\frac{36 - 19.8}{3.49 - 0.497}$

Write down all the figures on your calculator display.

.....

(Total 2 marks)

8. Chris buys

a magazine costing £2.95
a book costing £5.62
a bookmark costing 25p
two pens costing 48p each

She pays with a £10 note.

How much change should she get from her £10 note?

£.....

(Total 3 marks)



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9. (a) Use your calculator to work out

$$\sqrt{15.3 - 3.87}$$

Write down all the figures on your calculator display

..... (2)

- (b) Round your answer to part (a) to 3 significant figures.

..... (1)
(Total 3 marks)

10. Sally travels by car to her meetings.

Sally's company pays her 37p for each mile she travels.

One day Sally writes down the distance readings from her car.

Start of the day (miles)					End of the day (miles)				
4	2	3	4	7	4	2	5	1	3

- (a) Work out how much the company pays Sally for her day's travel.

£..... (3)

The next day Alison claimed a total of £72.15 for mileage.

- (b) How many miles did her milometer show at the end of the day?

.....miles (3)
(Total 6 marks)



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11. Annie buys Apples at 39p each.
She pays with a £5 note.

(a) Work out the greatest number of apples Annie can buy.

.....

(2)

(b) Work out the change she should get.

..... p

(1)

(Total 3 marks)