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		1	
760	Lyon		1
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)

 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.

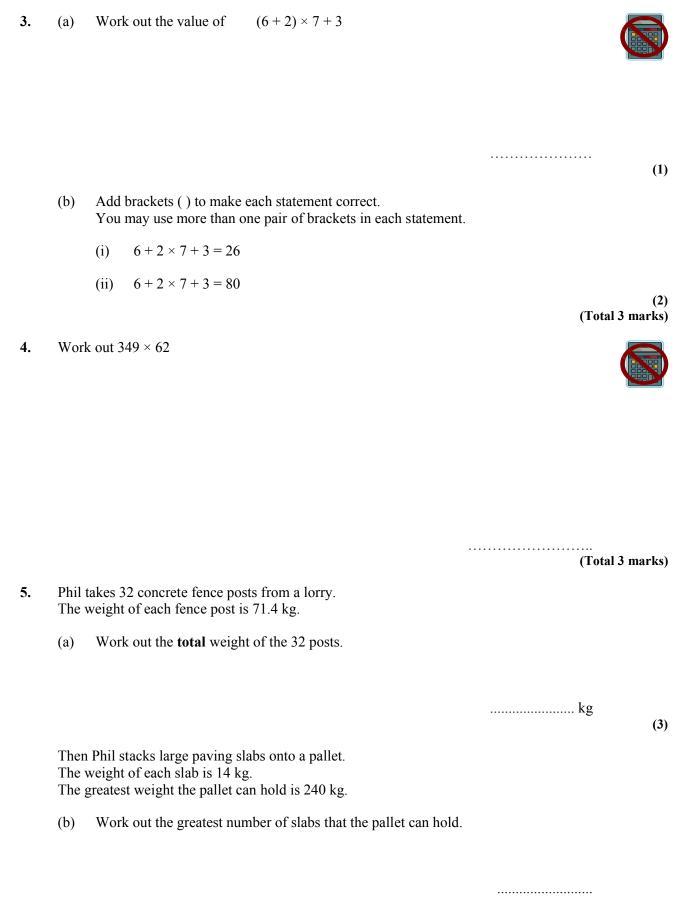






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6. (a) Use your calculator to work out  $(9.3 - 0.709)^2 \times 0.97$ 

Write down all the figures on your calculator display.

.....

(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)

(2)

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.

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

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

(1)

(2)

(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



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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.

(b) Work out the change she should get.

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

(2)

.....