Maths-it Podcast H-06

Maths-it Podcast

Higher GCSE Revision

Calculations, (mental, written and using a calculator)

Topics

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

Questions

(b)

1. (a) Work out the value of $(12-3) \times 4-6$

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

- (i) $\sqrt{16} 7 \times 2 + 3 = 9$
- (ii) $\sqrt{16} 7 \times 2 + 3 = -31$
- (iii) $\sqrt{16} 7 \times 2 + 3 = 15$
- 2. Brian washes cars.



One day he washes 72 cars. He charges £6.45 for each car wash.

(a) Work out the total amount he charges for 72 car washes.



(1)

(3) (Total 3 marks)



£





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Julio works for Brian, he gets paid 95p per car washed. One day he was paid £53.20 for washing cars.

(b) How many cars did Julio wash?

..... cars

(3) (Total 6 marks)

3. Calcs 'r' us sell calculators. Their prices are shown below for two different models.



fz205 - £2.90

gt7000 - £9.75

(a) Mathchester High School place an order for 345 fz250 calculators and two gt7000 calculators. What is the total cost of this order?

£.....

(4)

(b) Mathchester Grammar School have a budget of £160 to buy calculators. How many fz250 calculators could they buy?



5.

6.

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4. Use your calculator to work out the value of $\frac{6.39 \times \tan 56^\circ}{\sin 80^\circ}$

Write down all the figures on your calculator display.

. (Total 2 marks) Use your calculator to work out $(9.3 - 0.709)^2 \times 0.97^4$ (a) 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) 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. (a) (2) Write your answer to part (a) to an appropriate degree of accuracy. (b)

> (1) (Total 3 marks)

7. Use your calculator to work out the value of $\frac{5+\sqrt[3]{20}}{12-7.367}+1.7^2$

Give your answer correct to 3 significant figures.