

Maths-it Podcast F-10

Foundation GCSE Revision

Understanding Formulae

Topics

Use word formulae – Substitute into formulae – Derive formulae – Change the subject of a formula

Questions

1. Rob makes concrete posts. Here is a formula to work out how much he gets paid in a week.

Wages = £75 + £2 for each post made.



Last week, Rob made 56 posts.

Work out how much Rob earned last week.

Wages =	£	
	(Total 2	marks)

Here is a formula for calculating the cost to produce badges. 2.

 $Cost = machine set up cost + material cost \times number of badges$

Frances wants 5000 badges. Here are the costs for her badges,

Machine set up cost = £45Material cost = £0.02

How much will it cost Frances for her badges?

Cost = £.....

(Total 3 marks)

Here is a formula, t = 5r - s. 3.



Find t when r = 4 and s = 3

 $t = \dots$ (Total 2 marks)



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4.		and said, "when $x=2$, the value of $5x^2$ is 20." ini said, "when $x=2$, the value of $5x^2$ is 100."	
	(a)	Who was right?	
		Explain your answer.	
	(b)	Find the value of $5(x-1)^2$ when x is 5.	(2)
			(1) (Total 3 marks)
5.		$a = \frac{v - u}{5}$	
	v = 2	20, u = 5	
	(a)	Work out the value of <i>a</i> .	
			(2)
	a = 1	2, v = 14	
	(b)	Work out the value of u .	
	(c)	Rearrange the formula to make v the subject.	(2)

(2) (Total 6 marks)