

The 100% Club – Homework Pack (F)

Know your basics!



Name: _____

To achieve well in the Foundation tier paper it is essential that you achieve 100% at the beginning of the paper and with key fluency questions.

Each question in this pack relates to one of these key questions from the pre seen mocks you have been doing.

Aim to achieve 100% in these questions and you will be well prepared for your next assessment.

This homework is *in addition* to your independent revision on Hegarty Maths.

Sess	sion	Time Taken	Score	Percentage	Date Due
1			/10		06/03/20
2			/10		00,00,20
3			/10		13/03/20
4			/10		10,00,20
5			/10		20/03/20
6			/10		20,00,20
7			/10		27/03/20
8			/10		
9			/10		03/04/20
10			/10		03/04/20



Q #	Homework 1 – Paper 1 (Non Calculator)						
	Which type of angle is the smallest?						
1	Right Reflex Obtuse Acute						
	Solve $3x = 15$						
2	$x = 45$ $x = 5$ $x = \frac{3}{5}$ $x = 1.5$						
	Work out 10 - (-3)						
3	-13 7 13 -7						
	Circle the calculation which works out half of 16						
4	16 ÷ 0.5 2 ÷ 16 16 × $\frac{1}{2}$ 16 ÷ 50 × 100						
	Work out 174.4 + 24.3 – 7.09						
5a							
	Work out 13.59 × 2						
5b							
	Write down all the factors of 24						
9a							

۹h	Work out the lowest common multiple (LCM)) of 6 a	ind	20						
90										
	Draw a parallelogram on the grid shown.	•	•	•	•	•	•	•	•	
11a		•	•	•	•	•	•	•	•	
		•	•	•	•	•	•	•	•	
11a		•	•	•	•	•	•	•	•••	
		•	•	•	•	٠	•	•	•	
		•	•	•	•	•	•	•	•	
	Mark out EE% of 200	-	•	•	•	•	•	•	•	
	WORK OUL 55% OF 300									
12										



Exam		Hom	ework 2 – Pa	per 2 (Calcu	lator)	
<u>Q</u> #	Circle the nu	mber that is or	ne more than a	cube number.		
1		7	8	9	10	
	Circle the fra	ction which is	equal to 0.75			
2		<u>1</u> 75	$\frac{1}{4}$	$\frac{7}{5}$	<u>9</u> 12	
		abarlina Mhid	h number is A			
3	6			A		7
		6.3	6.55	6.6	6.8	
	How many m	illimetres are	equal to 1.09 m	etres?		
4		10.9	109	1090	10900	
	Which is loi You must sl	nger, $\frac{1}{10}$ of a data how your work	ay or 150 minut ting	es.		
5						



Use your calculator to work out $\frac{9.75^2}{1.875} - 2.4^4$ 6a Give your answers a decimal and write down your full calculator display. Round your answer to Q6a to one decimal place 6a Estimate $\frac{2.65^3}{8.875} + 6.4^2$ by rounding each value to the **nearest whole number**. 6b An isosceles triangle is shown Draw the lines of symmetry onto this below. regular hexagon. Find the missing angle x. 310 х 8b 8a



Exam O #		Hon	nework 3 – Pap	er 3 (Calculate	or)	
	Circle the value	of the digi	t 6 in the answer	to 3600 ÷ 10		
1		6	60	600	6000	
2	Solve $x - 5 = 7$. x = 12		<i>x</i> = 2	<i>x</i> = -12		$x = -\frac{7}{5}$
	Circle the fracti	on that is e	equal to $1\frac{2}{5}$			
3		$\frac{3}{5}$	2 5	7 5	$\frac{12}{5}$	
	Circle the expre	ession whic	h mean a divided	by b		
4		$\frac{a}{b}$	$\frac{b}{a}$	$\frac{1}{ab}$	$\frac{1}{a+b}$	
	Place these nur	nbers in or	der from smallest	to largest		
5		39 50	0.835	$\frac{81}{100}$	$\frac{4}{5}$	



	Josh downloads album A th	nat has 9 tracks						
	The total cost of download	ing album A is	£9.90.					
	How much does each track cost, assuming each track costs the same amount?							
6								
	The first four triangular nu	mbers are 1, 3,	6, 10					
10	Circle the next triangular h	umber.						
12	14	15	16	17				
	Write down all the prime n	umbers betwe	en 40 and 50					
13								
15								
	Circle the correct statemer	it.						
	2	2	2	2				
15	$\frac{2}{3} \le 60\%$	$\frac{2}{3} = 60\%$	$\frac{2}{3} < 60\%$	$\frac{2}{3} \neq 60\%$				
		-	-	-				
	A shop sells ice creams. Ea	ch ice cream ha	s three scoops.					
	The possible flavours are signal.	trawberry (S), c	hocolate (C) and	mint (M).				
	The three scoops can be th	e same flavour	or different flave	ours.				
		. f						
	List all the possible options	s for the three s	coops					
17								
17								
1								



Exam Q #	Homework	4 – Paper	1 (Non Cal	culator)	
	Which type of angle is 156°?				
1	Right R	eflex	Obtuse	Acute	
	Solve $\frac{x}{3} = 15$				
2	x = 45 $x = 5$	$x = \frac{3}{5}$	x = 3	315	
	Work out $-10 + (-3)$				
3	13 -7	,	-13	7	
	Circle the calculation which wo	rks out one q	uarter of 12		
4	12 ÷ 0.25 4	÷ 12	12 ×	$\frac{1}{4}$	12 ÷ 4 × 10
	Work out 118.4 – 24.7 -	+ 5.09			
5a					
	Work out 42.79×3				
5b					
9a	Write down all the factors of 36	5			



9b	Work out the lowest common multiple (LCN	4) of 8 ai	nd :	10						
11a	Draw a trapezium on the grid shown.	•	• • • •	•	•	•	•	•	•	
	Work out 65% of 460	•	•	•	•	•	•	•	•	
12										



Exam		Hon	nework 5 – Pa	aper 2 (Calcul	ator)	
Q #	Circle the nu	mher that is c	ne more than a	square numbe	r	
1		8	9	10	11	
	Circle the fra	ction which is	equal to 0.4			
		1	4	10	0	
2		$\overline{4}$	10	4	$\overline{4}$	
	Here is a num	nber line. Wh	ich number is A	?		
3	4	A				5
		4.1	4.2	4.6	$4\frac{1}{6}$	
					6	
	How many ce	entimetres ar	e equal to 1.4 k	ilometres?		
		140	1400	14 000	140 000	
4						
	Which is lor	nger, $\frac{1}{4}$ of a da	y or 600 minut	es.		
	You must sł	now your wor	king			
5						



Use your calculator to work out $\left(\frac{5.32}{1.9}\right)^2 + 1.9^{-2}$ 6a Give your answers a decimal and write down your full calculator display. Round your answer to Q6a to two significant figures 6a Estimate $\left(\frac{5.62}{1.9}\right)^2 + 1.4^2$ by rounding each value to the **nearest whole number**. 6b Write down the order of rotational An isosceles triangle is shown symmetry for this regular hexagon. below. Find the missing angle *x*. 8b 8a

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Exam Q #	Homework 6 – Paper 3 (Calculator)						
	Circle the value of	of the digit 2 in	the answer to 12	2 700 ÷ 10			
1		20	200 20	000	20 000		
	Solve <i>x</i> + 2 = 13						
2	<i>x</i> = 2	ډ	z = 11	<i>x</i> = 15	<i>x</i> = 6.5		
	Circle the fractio	n that is equal 1	$3\frac{1}{2}$				
3		<u>3</u> 3	$\frac{4}{3}$	$\frac{31}{3}$	$\frac{10}{3}$		
	Circle the expres	sion which mea	ins b divided by	а			
		$\frac{a}{b}$	$\frac{b}{a}$	$\frac{1}{ah}$	$\frac{1}{a+b}$		
4			u	ub	u i b		
	Place these num	bers in order fr	om smallest to la	argest			
	1	36 100	0.34	$\frac{19}{40}$	$\frac{9}{20}$		
5							



	Josh downloads album A that has 12 tracks.								
	The total cost of downloading album A is £13.20.								
	How much does each track cost, assuming each track costs the same amount?								
6									
	The first four numbers in the Fibonacci sequence are 1, 1, 2, 3								
	Circle the next number.								
12									
	5 4 5 0								
	Write down all the prime numbers between 20 and 30								
13									
	Circle the correct statement.								
15	$\frac{1}{-1} < 10\%$ $\frac{1}{-1} = 80\%$ $\frac{1}{-1} > 80\%$ $\frac{1}{-1} > 10\%$								
13	8 8 8								
	A shop sells ice creams. Each ice cream has two scoops.								
	The possible flavours are vanilla (V), strawberry (S) and chocolate (C).								
	The two scoops can be the same flavour or different flavours.								
	List all the possible options for the two scoops								
17									



Q #	Homework 7 – Paper 1 (Non Calculator)							
	Which type of a	angle descr	ibes angles me	easuring exactly	90°?			
1		Right	Reflex	Obtuse	Acute			
2	Solve $5x = 2$ x = 10	x =	52 <i>x</i> =	$=\frac{2}{5}$ $x =$	<u>5</u> 2			
3	Work out	-9 - 3 12	-12	-6	-6			
4	Circle the calcu $20 \div 0.3$	lation whic 25	h works out o 4÷ 20	ne quarter of 20 $20 \div 4 \times 1$	$0 \qquad 20 \times \frac{1}{4}$			
5a	Work out	24.3 – 15.0	9 + 96.9					
5b	Work out	14.03 × 7	7					
9a	Write down all	the factors	of 20					

	Work out the lowest common multiple (LCM) of 10 and 15			
9b				
	Draw a kite on the grid shown	• •	•	•
		• •	•	•
	••••	• •	•	•
11a	••••	• •	•	•
	••••	• •	•	•
	••••	• •	•	•
		• •	•	•
		•	•	•
	Work out 35% of 560			
12				



Exam		Homework	k 8 – Paper 2	(Calculator)					
Q #	Circle the number that is one less than a prime number.								
1		7 {	3	9	10				
	Circle the fraction v	vhich is equal t	o 0.5						
2	$\frac{1}{5}$	$\frac{1}{2}$	2 4	$\frac{5}{10}$	$\frac{0}{5}$				
	Here is a number li	ne. Which num	ber is A?						
3	4		A		6				
		4.2	4.4	4.8	5				
	How many metres	are equal to 20	300 millimetr	es?					
4	2	.03 2	3 2	20.3	203				
	Miles 1		··- •						
5	Which is longer, _ You must show yo	a day or 600 m our working	ninutes.						



	Use your calculator to work out	-3) ² +	$\frac{305}{1.6^3}$
6a	Give your answers a decimal and writ	e down	your full calculator display.
6a	Round your answer to Q6a to two dee	cimal pl	aces
	Estimate		
	2 3	$\frac{105}{1000} + 1$	1.4 ²
6b	by rounding each value to the neares	t whole	e number.
	An isosceles triangle is show below.		Draw the lines of symmetry onto this
	Find the missing angle x .		equilateral triangle.
8a	50°	8b	



Exam Q #		Hon	nework 9 – Pa	per 3 (Calculato	or)				
	Circle the value of the digit 7 in the answer to 4700 ÷ 1000								
1		70	7	0.7	0.07				
	Solve <i>x</i> + 9 = 9								
2	<i>x</i> = 18		<i>x</i> = 99	x = -9		x = 0			
	Circle the fracti	on that is e	equal to $5\frac{1}{2}$						
3		$\frac{51}{2}$	$\frac{5}{2}$	$\frac{11}{2}$	$\frac{6}{2}$				
	Circle the expre	assion which	h mean <i>a</i> multir	lied by h					
4		$\frac{a}{b}$	ab	$\frac{1}{ab}$	a + b				
	Place these nur	mbers in or	der from smalles	st to largest					
5		9 5	0.51	$\frac{5}{10}$	$\frac{5}{100}$				



	Josh downloads album A that has 11 tracks.							
	The total cost of downloading album A is £11.99.							
	How much does each track cost, assuming each track costs the same amount?							
6								
	The first four cube numbers are 1, 8, 27, 64							
	Circle the port cube number							
12								
12	25 125 81 15							
	Write down all the prime numbers between 0 and 10							
13								
	Circle the correct statement							
	3 3 3 3							
15	$\frac{1}{4} \le 75\%$ $\frac{1}{4} = 75\%$ $\frac{1}{4} < 75\%$ $\frac{1}{4} \ne 75\%$							
	A shop sells ice creams. Each ice cream has three scoops.							
	The possible flavours are vanilla (V), strawberry (S) and mint (M).							
	The three scoops can be the same flavour or different flavours.							
	List all the possible options for the three scoops							
17								



Q #	Home	work 10 – Pa	per 1 (Non Ca	lculator)					
	Circle the angles which are greater than 90°								
1	Right	Reflex	Obtuse	Acute					
	Solve $6x = 42$								
2	x = 4.2	<i>x</i> = 252	<i>x</i> =	$\frac{6}{42}$ $x = 7$					
	Work out -10 + (-	-3)							
3	-13	7	13	-7					
	Circle the calculation which works out half of 30								
4	30÷ 0.5 2÷	- 30 30	$\times \frac{1}{2}$ 30 ÷	50 × 100					
	Work out 138.4 + 17.3 – 7	7.09							
5a									
	Work out 67.59 × 2								
Гh									
50									
	Write down all the factors	s of 36							
9a									

9b	Work out the lowest common multiple (LCM) o	of 8 a	and	20						
11a	Draw a rhombus on the grid shown.	• • • • • • • • • • • • • • • • • • • •	• • • • •	• • • • •	• • • • •	• • • • •	• • • • • • • • • • • • • • • • • • • •	• • • •	• • • •	
12	Work out 85% of 400									

