BETWEEN PAPERS PRACTICE SET 2 OF 2 - FEH (MOST OUESTIONS)

SUMMER 2018

NOT A "BEST" GUESS PAPER.

NEITHER IS IT A "PREDICTION" ... ONLY THE EXAMINERS KNOW WHAT IS GOING TO COME UP! FACT! YOU ALSO NEED TO REMEMBER THAT JUST BECAUSE A TOPIC CAME UP ON PAPER 1 OR PAPER 2 IT MAY STILL COME UP ON PAPER 3 ...

WE KNOW HOW IMPORTANT IT IS TO PRACTICE, PRACTICE, PRACTICE SO WE'VE COLLATED A LOAD OF QUESTIONS THAT WEREN'T EXAMINED IN THE PEARSON/EDEXCEL 9-1 GCSE MATHS PAPER 1 OR PAPER 2 BUT WE CANNOT GUARANTEE HOW A TOPIC WILL BE EXAMINED IN THE NEXT PAPERS ...

Enjoy! Mel & Seager

Questions from Edexcel's Exam Wizard compiled by JustMaths - this is NOT a prediction paper and should not be used as such!

Q1. A cinema sells adult tickets and child tickets.

The total cost of 3 adult tickets and 1 child ticket is £30 The total cost of 1 adult ticket and 3 child tickets is £22 Work out the cost of an adult ticket and the cost of a child ticket.

Q2. Freya thinks	of a number.				(2)	
She multiplies the The result is 50	e number by 2 a	nd then subtrac	ts 10			
What number did	l Freya think of	?				
					(3)	
Q3. Jeremy has	10 socks.					
		6 of the so	ocks are red			
2 of the socks are green						
Jeremy takes at r	random two of t	ne socks.				
Work out the pro	bability that he	takes two socks	of the same cold	our.		
					(4)	
Q4. Lionel record	led the number	of typing errors	on each page of	a letter. Here ar	e his results.	
2	5	1	1	3	2	
(a) Work out the	e median.					
					(2)	
(b) Work out the	e range.					
					(2)	
				,		
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Lionel also recorded the number of errors on each page of a book.

The table gives information about his results.

Number of errors on each page	Tally	Frequency		
0				
1				
2	HH II			
3	111			
4	Ť			

(c) Complete the frequency column in the table.

(1)

(1)

- (d) How many pages are there in the book?
- (e) Work out the total number of errors in the book.

Q5. Here are the first five terms of	Here are the first five terms of an arithmetic sequence.					(2)
	2	6	10	14	18	
(a) Write down an expression, in t	erms	of <i>n</i> ,	for the	<i>n</i> th te	rm of this sequence.	

*(b) Is 86 a term in the sequence? You must give a reason for your answer.

(1)



(2)

Rainfall (mm)

.....and.....

Q7. Here are 8 polygons.



(a) Write down the mathematical name for polygon G.

(b) Two of the polygons are congruent. Write down the letters of these polygons.

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(1)

(1)

One of the polygons is similar to polygon F.

(c) Write down the letter of this polygon.

The interior angles of this regular polygon add up to 540°.

(d) What is the size of one interior angle?

Q8. Here is a regular 10-sided polygon.

(a) Write down the mathematical name of the polygon.

One of the interior angles of this regular polygon is 144° (b) Work out the sum of the interior angles of the polygon.

Q9. (a) Work out the reciprocal of 1.25

(b) Work out the value of $\frac{9.6}{\sqrt{5}-1.7}$ Give your answer correct to 2 decimal places.



Diagram NOT accurately drawn

(2)

(1)

(1)

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Q10. (a) Complete the table of values for $y = 4 - x^2$

x	-3	-2	-1	0	1	2	3
У	-5		3			0	

(2)

(b) On the grid, draw the graph of $y = 4 - x^2$ for values of x from -3 to 3

(2)



y,

Q11.



(a) On the grid above, translate shape **A** by the vector $\begin{pmatrix} -3 \\ -1 \end{pmatrix}$

(2)



(b) Describe fully the single transformation that maps shape **B** onto shape **C**.

Q12. There are 8 counters in a box.

The letter A is on 6 of the counters. The letter B is on the other 2 counters.

Sally takes at random a counter from the box. She keeps the counter. Then Tina takes at random a counter from the box.

(a) Complete the probability tree diagram.

Sally Tina



(3)

- (b) Work out the probability that both Sally and Tina take a counter with the letter A on it.
- (c) Work out the probability that at least one counter with the letter A on it is taken.
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Q14. A number, *n*, is rounded to 2 decimal places. The result is 4.76 Using inequalities, write down the error interval for *n*.

Q15. The scale diagram shows the positions of two airports, A and B.

Scale: 1 cm represents 10 km

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N

N B A

(4)

- (a) Measure and write down the bearing of airport *B* from airport *A*.
- (b) What is the real distance from airport *A* to airport *B*?





Scale: 1 centimetre represents 2 metres

- (a) Work out the real distance from the fountain to the bench.
- (b) Measure the bearing of the bench from the fountain.

Haavi is going to plant a tree in the garden.

The tree must be

less than 7 metres from the fountain, less than 12 metres from the bench.

(c) On the diagram show, by shading, the region in which Haavi can plant the tree.

(3)

(1)

(2)

(1)

Q17. ABCD and PQRS are two rectangles.



Rectangle *ABCD* is 15 cm by 10 cm. There is a space 5 cm wide between rectangle *ABCD* and rectangle *PQRS*.

Are rectangle *ABCD* and rectangle *PQRS* mathematically similar? You must show how you got your answer.

Q18. Ali is *y* years old.

Bhavara is twice as old as Ali. Ceris is 3 years younger than Ali.

The total of their ages is 125 years.

Work out the age of each person.

(3)