CHICULATOR

Paper 2 Revision F

Key topics to practice for 4th June

All the topics listed below are likely to appear in some form in paper 2 or 3.

Give them a go, check your answers with the solutions provided and speak to your teacher.

Very Likely topics

Simplify Algebraic Expressions	Area of shapes	Gradients, intercepts, y=mx+c	Time calculations
Fractions, decimals and percentages	Forming expressions / equations from context	Solve Linear Equations	Metric Units

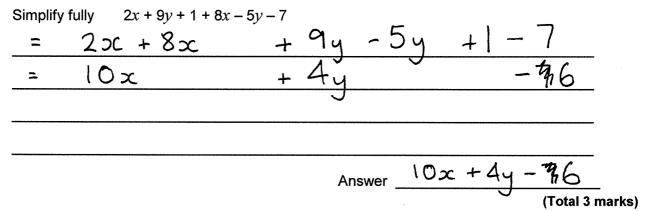
Likely topics

Factors and Multiples	Types of Number (odd, even, cube, prime)	Sequences (more likely nth term)	Money
Probability			

USE A CALCULATOR FIND A CALCULATOR USE A CALCULATOR

Very Likely - Simplify Algebraic Expressions

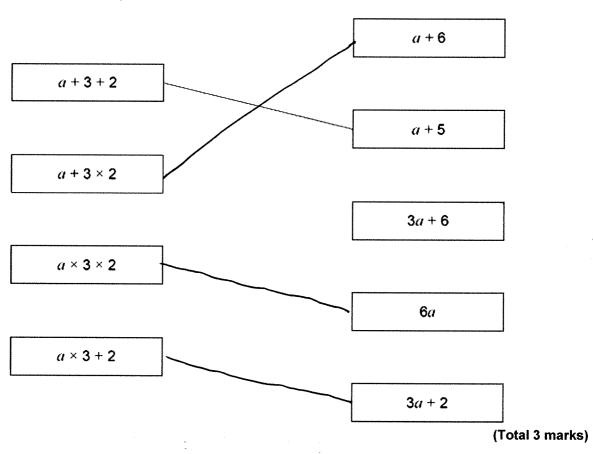
Q1.



Q3.

Match each expression on the left with one on the right.

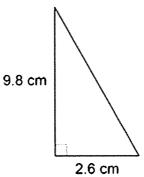
One has been done for you.



Very likely – Area of Shapes

Q4.Work out the area of this triangle.

Not drawn accurately

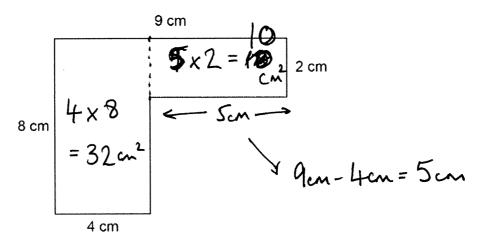


 cm^2

(Total 2 marks)

Q5. Here is a shape made from rectangles.

Not drawn accurately



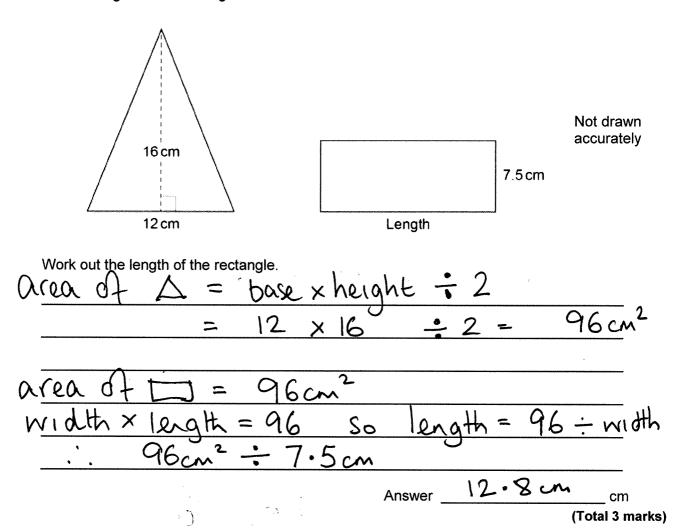
Work out the area.

Eller AZenz Answer_ cm²

(Total 3 marks)

Q6.

The rectangle and the triangle have the same area.



Very likely – Gradients, Intercepts, y=mx+c

A line has the equation y = 3x - 5

Q7.

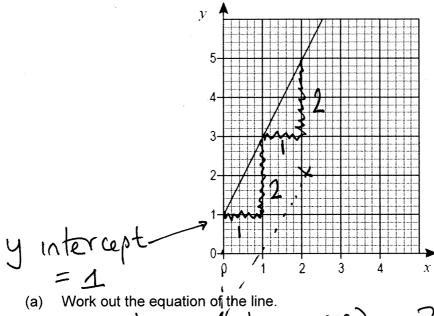
(a) Write down the gradient of the line.

Answer _____

(Total 2 marks)

Q8.

Here is a graph of a straight line.



('s teep ness'

Answer y=2x+1

Work out the coordinates of the *y*-intercept of the line that (b)

is parallel to the line in part (a)

and passes through (2, 2)

back track

down 2, left 1 from (2,2)

Answer (___

(Total 4 marks)

(2)

(2)

Q9.	(α,y) (α,y)	
	Nork out the gradient of the straight line through (–2, 3) and (1, 9)	
	(difference of y co-ordinates) -	
	(difference of x co-ordinates) =	
-	$(9-3) \div (12) = 6-3 =$	2
	2	
	Answer	(Total 2 marks
1	. lileale. Timo a calculations	
<u>/ery</u>	y likely – Time calculations	
040		
Q10. T	imes for the three parts of a journey are	
	• 20 minutes	
	• 40 minutes	
	1 hour 30 minutes.	
V	Vork out the total time for the journey.	
G	Give your answer in hours.	
*******	20+40 + M lhr +30	
	1hr + 1hr + 30	
	= 2hr 30mins	

	Answer 2 2 or 2.5	
	Answer ZZ W ZT	رے hours (Total 2 marks)
		(TOTAL Z IIIAI KS)
Q11.	•	
W	Vork out one quarter of 5 hours.	
G	Sive your answer in minutes.	
	$5 \div 4 = 1.25 \text{hr}$	
1	0.25 × 60 mins = 75 mins	
	Answer 75	minutes
	Allower	(Total 2 marks)

Q12.

A TV series has ten episodes.

Nine episodes are each 50 minutes long.

One episode is 1 hour 42 minutes long.

Work out the **total** length of the series.

Give your answer in hours and minutes.

$$9 \times 50 = 450 \, \text{mins}$$

 $1 h_r 42 \, \text{mins} = 102 \, \text{mins}$

Answer	9	hours	12	minutes
				(Total 3 marks)

Q13.

Ali revises each day for five days.

On each of the first four days he revises from 5 pm to 8 pm

On the fifth day he starts revising at 1 pm

He finishes when he has revised for a total of 18 hours for the five days.

What time does he finish on the fifth day?

Answer 7 pm (Total 3 marks)

Very likely – Fractions, Decimals, Percentages

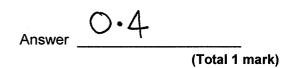
Q14.

Write 0.27 as a fraction.

Answer		
7	100	

Q15.

 $\frac{2}{5} \text{ as a decimal.}$



Q16.

Circle the fraction equal to 0.1%

 $\frac{1}{10}$

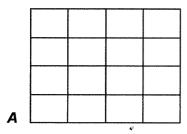
 $\frac{1}{100}$

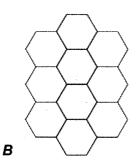


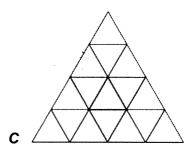
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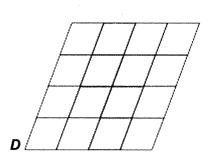
(Total 1 mark)

Q17. (a) Which **two** grids have one-quarter shaded?









Answer _____ and ____

(n) vvnat percentage of this grid is shaded?	
	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	
	10 100	
	30	
	Answer % (2) (Total 4 marks)	
040		
Q18.	Before an election, 33% said they would vote for Party A 10% said they would vote for Party B 15% said they would not vote.	
T	nese all voted as they said.	
In	the rest of the population $\frac{1}{3}$ voted for Party A and $\frac{2}{3}$ voted for Party B.	
(2	You must show your working. 33% + 10% + 15% = 58% WHAT'S LEFT?	
	100% - 58% = 42%	
	3 d 42 = 14% → A = 3 d 42= 28% → B)
TOTAL	7: 33%+14%=47% TOTALB: 10%+28%=38	3
	Answer A got Most (4)	
(t) 6600 people did not vote. How many did vote? So 15% \$6600 # 99990 6600 ÷ 15 = 440	
02	$85\% = 440 \times 85$ Answer $\frac{1000}{37400}$ (2) $= 37400$ (Total 6 marks)	

Q19.

A gym has 275 members.

40% are bronze members. 28% are silver members. The rest are gold members.

Work out the number of gold members.

(Total 3 marks)

Very likely – Solving Equations

Q20.

(a) Solve
$$3x = 12$$

$$x = \frac{\mathbf{G}}{\mathbf{G}}$$
 (1)

(b) Solve
$$y + 6 = 15$$

(1)

(c) Solve
$$\frac{w}{4} = 5$$

(1) (Total 3 marks) Q21.

Solve
$$4x + 1 = 39$$

$$\frac{4x = 38}{4}$$

$$x = 9.5$$

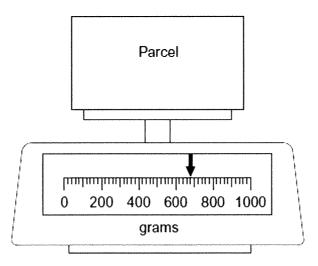
(Total 2 marks)

Very likely – Metric Units

Q22.

Write down a suitable unit of mass for an apple.

Q23. (a) Amir weighs a parcel.



What is the weight of his parcel?

Answer grams (1)

Beth has a parcel that weighs 1600 grams. (b)

What is 1600 grams in kilograms?

Answer _____ kilograms (1)

(Total 2 marks)

Q24.

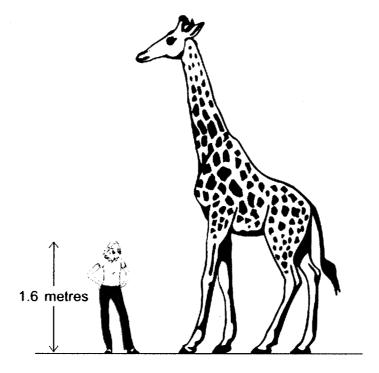
Circle the most suitable unit for each of the following.

The length of a human finger	centimetres	metres	kilometres
The amount of water in a bath	millilitres	centilitres	litres
The weight of a pencil	grams	kilograms	tonnes

(Total 3 marks)

Q25.

The diagram shows a woman standing beside a giraffe.



Estimate, in metres, the height of the giraffe.

——————————————————————————————————————	3×1·6	= 4.8	
	Answer	4.8	metres
_			

but any answer between. 4.6 and S.O 13 ok.

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(Total 2 marks)

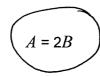
Very likely – Forming expressions and equations

Q26.

The value of A is double the value of B.

Circle the correct formula.

$$A = B + 2$$



$$A=\frac{B}{2}$$

$$A = B^2$$

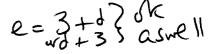
(Total 1 mark)

Q2.

e is 3 more than d.

f is 5 less than d.

Write an expression for e in terms of d.

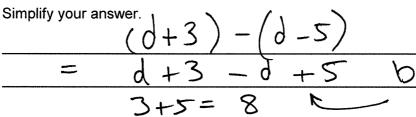


Answer 0+3 or 3+0 (1)

Write an expression for f in terms of d. (b)

Answer ___

Work out (c)



8 Answer

(2)

(Total 4 marks)

<u>Likely – Types of number</u>

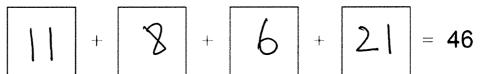
Q27.

Complete the boxes using

two different even numbers

and

two different odd numbers.



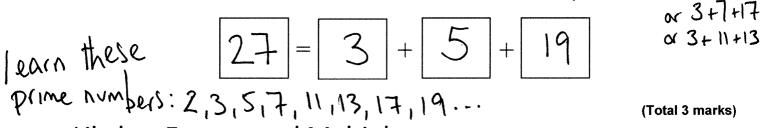
(Total 2 marks)

Q28.

The first two cube numbers are 1 and 8

Show that

the 3rd cube number can be written as the sum of three different prime numbers.



<u>Likely – Factors and Multiples</u>

Q29.

Circle the number that is a multiple of 25

55

65



85

(Total 1 mark)

Q30. Complete the boxes using

a factor of 12

and

a factor of 40

$$\begin{array}{c|c}
3 \times 10 = 30 \\
6 \times 5 \\
\text{Page 14 of 39}
\end{array}$$
(Total 2 marks)

Q31.

Work out the multiple of 60 that is closest to 400

60x1 = 60	60 x S = 300	
60×2 = 120	60x6=360	
60x3 = 180	60x7=420 400 closest	

60x4 = 240

Answer 420

(Total 2 marks)

Likely - Sequences

Q32.

(a) Here is a sequence.

5

8

11

14

17

2C

Write down the next number in the sequence.

Write down the rule for continuing the sequence.

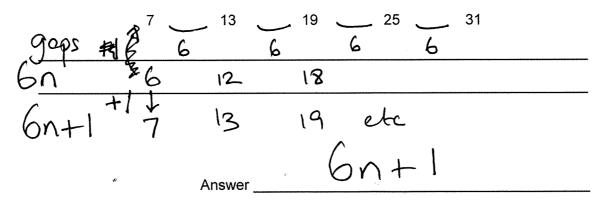
Next number _______

Rule ADD 3

-(2)

(b) Here is a different sequence.

Work out the *n*th term of the sequence.



(Total 4 marks)

(2)

A linear sequence begins	2
Work out an expression for the n	th term.
	A linear sequence begins

	3	3	3	30
/	~	~ ~		-1
		8		2, 1

3n=	3	6	9
-1	1	1,5)

Answer	3n-	
		(Total 2 marks

<u>Likely – Money</u>

Q34.

One lettuce costs £1.29

How much do **seven** of these lettuces cost?

1.29 × 7 =

9.

Answer £

(Total 1 mark)

Q35.

Five cucumbers cost £6.40 in total.

How much do two of these cucumbers cost?

$$\frac{6 \cdot 40 \div 5}{1 \cdot 28 \times 2} = \frac{1 \cdot 28}{2 \cdot 56} = \frac{1}{6}$$

Answer £ 2.56

(Total 1 mark)

Q36.

An electric car uses 1 unit of electricity to travel 3 miles.

1 unit of electricity costs 50 pence.

Work out the cost of electricity, in pounds, to travel 270 miles.

******	7	` \				
x)(-	<u> </u>	Miles	Costs	<u> </u>		
("H	6	milao	cost	≠1 '	2	
20 ₁ -	<u> </u>	miles	<u> </u>	~1		
\bar{q}	70	<u> </u>	1			
2	<u>- 10</u>	70	45			······
			45 ×	z =		
		***************************************			15	
				Answer £ _	40	
						(Total 3 marks)

Q37.

Leema buys 2 metres of linen at £8.50 per metre.

She also buys 5 metres of cotton.

The total cost is £38

What is the cost of one metre of cotton? $LINEN: 2 \times 8.50 = £17$	
LINEN: 2×[8.50= [1]	-
,	
TOTAL= £38	
TOTAL - LINEN = COTTON	
£38-£17 = £21 for 5m of COTT	
$421 \div 5 = 44.20$ for $1m$	

(Total 4 marks)

<u>Likely – Probability</u>

An ordinary fair dice is rolled ten times.

Q38.

	Here are the first nine results.
	6 1 3 2 1 5 5 5 5
	Write down the probability of getting a 5 on the tenth roll.
	Answer
	(Total 1 mark
~	
Q.	39.
	An ordinary six-sided dice is rolled 300 times. It lands on five 120 times.
	Do you think the dice is fair? Give a reason for your answer. Chara of 5 = 6
,	6 of 300 = 50, I would expect 50 5s
	It has laded on 5 120 times which
ļ	Is more than double (Total 2 marks)
	expectation so NO the dice
,	expectation so NO the dice is Not fair.

		counters.		
A counter is chosen at r	andom from the bag.			
The probability it is blue	is $\frac{1}{4}$			
Probability so 2/4 (34-14) =	6 cou		- - 12_=
304/4=1		9	DCy- 1/4 of	
	Answer	P(3)=-		 3 marks)
41. Boxes A, B, C and D	contain balls with num	bers on them.		
Box A	Box B	Box C	Box D	
(1) (2) (3) (1) (2)	3	(1) (2) (2) (3) (3)	(1) (2) (3) (3)	7
A ball is picked at rando	m from each box.	P(3)=(2)	P(3)	= = =
(a) Which box gives t	he greatest chance of	f picking a 3?		•
	A	higher	than on	<u></u>
	A counter is chosen at r The probability it is blue How many red counters Probability So 2/4 = 1 A1. Boxes A, B, C and D Box A (a) Which box gives to You must show y	A counter is chosen at random from the bag. The probability it is blue is \(\frac{1}{4} \) How many red counters are in the bag? Probability of red is so \(\frac{3}{4} - \frac{4}{4} \) = \(\frac{3}{4} - \	A counter is chosen at random from the bag. The probability it is blue is $\frac{1}{4}$ How many red counters are in the bag? Probability of red is $\frac{1}{4}$ So $\frac{2}{4} = \frac{12}{4} = 1$	The probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability of red is $\frac{1}{4}$. How many red counters are in the bag? Probability of red is $\frac{1}{4}$. How many red counters are in the bag? Probability of red is $\frac{1}{4}$. How many red counters are in the bag? Probability of red is $\frac{1}{4}$. How many red counters are in the bag? Probability of red is $\frac{1}{4}$. How many red counters are in the bag? Probability of red is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability it is blue is $\frac{1}{4}$. How many red counters are in the bag? Probability i

Which two boxes give the same chance of picking a 1? A = 2 = 1 Box Box

(b)



AQA Foundation

Paper 2. To do this I have carefully analysed the topics that appeared in your Paper 1 but also the trends from all previous exam papers. In this document you will find lists of topics to help you focus your revision for

the more likely I believe it could appear in Paper 2. Each topic has been rated from 1 star to 5 stars. The more stars I have given it,

This does not guarantee the topics with more stars will appear or those with low stars will not but it may help you to prioritise topics for revision.

appear on Paper 3 instead of, or as well as, Paper 2. should note that since there are still 2 papers left, many of the topics could I will do this again after Paper 2 to help you focus revision for Paper 3. You

AQA to help you revise. The dates for these are on the website. out on resources. I will write more practice papers for each tier for Edexcel and Be sure to subscribe to my YouTube channel and check the website to not miss

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<< Most likely topics to appear



<< Least likely topics to appear



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Simplify Algebraic Expressions Area of shapes Time calculations Fractions, decimals and percentages Gradients, Intercepts, y = mx + c % of amount Solve Linear Equations Metric Units		Form Algebraic Expression/Equation From Context
	Metric Units	Solve Linear Equations
	% of amount	Gradients, Intercepts, $y = mx + c$
•	Fractions, decimals and percentages	Time calculations
	Area of shapes	Simplify Algebraic Expressions



Types of Number (more likely odd/even/cube) Factors and Multiples Money Substitution Substitution Direct Proportion (not recipes) Share into ratio Application of Ratio Probability						
3		Money	actors and manupies	Euctors and Multiples	odd/even/cube)	Types of Number (more likely
Direct Proportion (not recipes) Share into ratio Application of Ratio Probability		Fraction of Amount	achaetices (more user) usu cerm	Sequences (more libely of herm	Jacon Canon	Substitution
	· · · · · · · · · · · · · · · · · · ·	Prohability	Application of Ratio	Share into ratio	priece inopolition (not recipes)	Direct Proportion (not recipes)



Use of inequality signs (< > ≤ ≥)	Draw/Use Straight Line Graph	Name Shape
Order Numbers	Coordinates	Angle Facts (around a point)
Unit Conversions	Compound Interest	Angles in a Triangle
(imperial or currency)	(Repeated % change)	Properties of triangles
Number Machines	Increase/Decrease by %	Bearings and Compass Directions
Place Value	Write as a %/Write as Frac	Angles in Parallel Lines
Listing Outcomes	Direct/Inverse Proportion	Surface Area 3D shape
Use of calculator	Form and Solve Equation	Circles and Sectors
Change the Subject	Write as ratio (including form 1:n)	Pythagoras
Quadratic Graphs	Relate Ratio to Fraction/Percentage	Perimeter
Expression, Equation, Formula, Identity, Term, Inequality	Speed, Distance, Time	SOHCAHTOA
Distance Time Graphs	Error Intervals (or max/min values)	Similar Lengths
Expand/Simplify (includes double brackets)	Use of scales on a map or a ratio	Scale Drawings
Symmetry	Scatter Diagrams	Averages
Transformations	Relative Frequency	Averages Problem Solve
Constructions and Loci	Bar Charts	Venn Diagrams
Pie Charts		

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Measure Line	Types of Graphs (Cubic, Reciprocal)	tiply/Divide Decimals
	, '	

Pressure, Force, Area Population Density Convert Units of area/volume Vertical Line Graph Time Series Graph
% Profit or %change [find the %]
1
Vertical and Horizontal Lines (and their equations)
Factorise (including quadratics)
Types of Graphs (Cubic, Reciprocal)

Pictograms	Density, Mass, Volume	Solve Quadratic Equation
Frequency Trees	Simplify Ratio	Standard Form
Exact Trig Values	Conversion Graphs	Negative Numbers
	×	

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