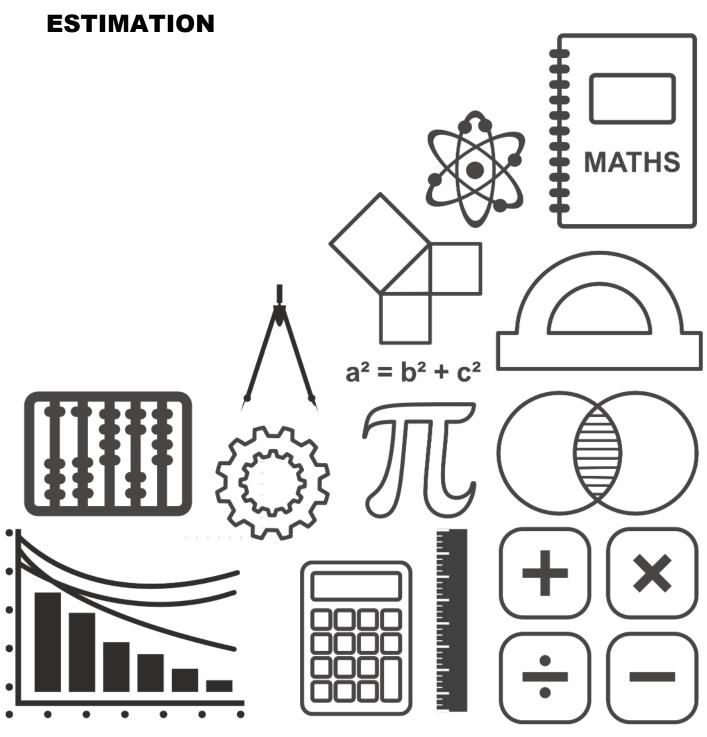


GCSE TOPIC BOOKLET



DO NOT USE A CALCULATOR WHEN ANSWERING THESE QUESTIONS

1.	Showing your working find an ESTIMATE for 198×12 .
	(2)
2.	Clearly showing how you obtained your answer, ESTIMATE the value of:
	$\frac{48 \times 1577}{210}$
	(2)
3.	Show clearly how you would obtain an ESTIMATE for the following calculation.
	$\frac{96 \times 319}{82}$
	(2)

4.	ESTIMATE	the	value	οf
→.	LJIIIVIAIL	uie	value	Οı

$$\frac{58 \times 92}{487}$$

Show clearly how you obtain your answer.
(2)
5. ESTIMATE the value of:
$\frac{(4.768)^3 \times 0.42}{18.6 \times 0.037}.$
Show clearly how you obtain your answer.
(3)
6. ESTIMATE the value of:
$\frac{597 \times \sqrt{35.7}}{9.2}$
Show clearly how you obtain your answer.

7.

	$\frac{594.3 \times 7.6}{38.7}$	
		(2)
8. a)	Showing all your working, find an ESTIMATE for the value of $~9.1~\times 29.8.$	
		(2)
b)	ESTIMATE the answer to 51×3.9 .	
•••••		
		(2)
c)	Showing all your working, find an ESTIMATE for the value of $4012\div49.$	
		(2)

Show clearly how you would obtain an ESTIMATE for the following calculation.

	Find an ESTIMATE for the value of 42.2 × 11.3. Show all of your working.	
9.	Show that $7.02^2-3.9^2$ is approximately 33.	(2)
10.	Showing all your working, find an ESTIMATE for the value of $5.17 imes 9.8.$	
11.	ESTIMATE the value of:	(2)
Show	$\frac{28.17\times0.48}{\sqrt{94.8}} \ , \ \ \text{giving your answer as a decimal.}$ clearly how you obtain your answer.	
•••••		(3)

12.	Obtain an	ESTIMATE	foi

	0.2	$2.1^2 \times 319.76$
	38	3.7×0.0186
•••••		
•••••		
		(3)
13.	Showing all your working actimat	to the value of
15.	Showing all your working, estimate	te the value of
	2	$.09^3 \times \sqrt{98}$
	-	0.196
•••••		
•••••		
		(3)
		(=)
14.	Obtain an ESTIMATE of $\sqrt{24}$ to the	e nearest whole number

(1)