

Answer Key | Lower Secondary

Stage (6-8)

1<sup>st</sup> Semester | 2023-2024

## Subject: Math **Objectives:**

Chapter: 1

• To review the answer key for the quiz material.

	ercise 1D	
8	81	<b>b</b> 11,-11 <b>c</b> 196 <b>d</b> 0
e	169	f 8, -8
		<b>b</b> 4.1, -4.1 <b>c</b> 0.1024 <b>d</b> 0.4, -0.4
		f 0.8, -0.8
(	$(-10)^2 = 100$	and $-10^2 = -100$
8	81	<b>b</b> -9 <b>c</b> 0.25 <b>d</b> -2.25
8	a 8	<b>b</b> -27 <b>c</b> 10 <b>d</b> -64
6	e -1	f -5
-	a 3.375	<b>b</b> -32.768 <b>c</b> -1.7 <b>d</b> -0.1
-	a 1.3	<b>b</b> 2.5, -2.5 <b>c</b> 9.6
		<b>b</b> 7.8m <b>c</b> 12.5 mm
-	a 10.24 m <sup>2</sup> 1.4 m The answer	<b>b</b> 47.61 mm <sup>2</sup> <b>c</b> 2.89 cm <sup>2</sup> should be negative
	a 10.24 m <sup>2</sup> 1.4 m	b       47.61 mm <sup>2</sup> c       2.89 cm <sup>2</sup> should be negative       Estimate without using a       Answer correct to
1 1	a 10.24 m <sup>2</sup> 1.4 m The answer	<ul> <li>b 47.61 mm<sup>2</sup> c 2.89 cm<sup>2</sup></li> <li>should be negative</li> <li>Estimate without using a Answer correct to</li> </ul>
0	a 10.24 m <sup>2</sup> 1.4 m The answer Question	b       47.61 mm² c       2.89 cm²         should be negative       Estimate without using a calculator       Answer correct to 2 d.p.         The answer is between the       75.11

## Student book

1	я	35	h	77	c	58		d	-24
-		$2^5 = 2 \times 2$	~	· · · · · · · · · · · · · · · · · · ·	-	-		u	4
		$2^6 = 2 \times 2$							
	c	$4^4 = 4 \times 4$	$\times 4$	$\times 4 = 2$	56				
	d	$5^4 = 5 \times 5$	$1 \times 5$	$5 \times 5 = 6$	25				
	e	1024 = 2	× 2 :	× 2 × 2 >	< 2 ×	2×2	$2 \times 2 >$	< 2	$\times 2 = 2^{1}$
	f	100 000 =	: 10	$\times$ 10 $\times$ 1	0 × 3	$10 \times 1$	0 = 10	)5	
3	a	104.8576	b	3.71293	с	113.	379 90	4	
		1.61051							
4	a	1	b	-1	c	1		d	-1
	e	Odd powe	ers gi	ive -1 eve	en po	wers g	rive 1		
		$(-1)^{20} = 1a$							
5		<sup>50</sup> on most							
6	99	99 <sup>25</sup> on mo	st ca	alculators					

## Exercise 1F

_													
1	b	625		<b>c</b> 12	8	d	2		е	2			
	f	3	1	g 4		h	4		i	6			
2	a	6		<b>b</b> 8		с	6		d	10			
3		b, he she $2^7$ .	ould	not h	ave	multipl	ied	the bas	ses, tl	he co	rrect an	swer	
4	a	610	b 7	23	c	317	d	105					
5	a	213											
	b	72 inde	x form	n not	poss	ible as b	ases	s not the	same				
	c d	3600 in 4 <sup>11</sup>	dex f	orm n	ot po	ossible as	s ba	ses not i	the sa	me			
6	a	2	h 4		c	6							
7		ne has d				vers ins	tead	l of sut	otract	ing tl	hem, the	e	
8	a	2 <sup>3</sup>	<b>b</b> 3	3	с	45	d	75	e 9	6	<b>f</b> 5 <sup>4</sup>		
9	a	2º	b 3	$0^{\circ} = 1$	с	$7^0 = 1$	d	$9^0 = 1$					
10	) a	1	<b>b</b> 1		с	1	d	1	e 1		<b>f</b> 1		
11	la	$6^1 = 6$		b 5	100	01.0 c	12	3	d	74			
	e	205		$\mathbf{f} q^1$	=q	g	$b^1$	= <i>b</i>	h	y4-m			
	i	$4p^{4}$		<b>j</b> 3 <i>x</i>	4	k	5n	n <sup>8</sup>					
								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					1

15 Write as  $\sqrt{\frac{64}{100}}$  (answer is 0.8)



edexcel 📰







## Homework book

1	D			13		15 miles		
1	a	4	b	9	c	49	d	225
	e	-4	f	9	g	49	h	225
2	a	4 and -4			b	9 and -9		
	c	3 and -3			d	13 and -1	3	
3	a	0.2601	b	13.69	c	28.5156		
	d	723.61	e	2.6 or -2.6	f	0.34 or -0	.34	
	g	52 or -52	h	3.5 or -3.5				
4	a	10.89	b	4.2				
5	a	4	b	-4	c	216	d	-216
	e	-27	f	-1000	g	0	h	-8000
6	a	3	b	2	c	-4	d	-10
7	a	1.728	b	15.625	c	-226.981	d	-0.027
	e	4.2	f	0.7	g	16	h	2.4
8	a	19.683	b	3.1				
		3		5		2		
9	a	7	b	11	c	3		
	d	0.8	e	1.3	f	0.5		

		LF						
1	a	85	b	47	c	76	d	(-2)4
	e	(-5)4	f	$2^3 \times 3^2$	g	$2^2 \times 7^3$	h	$3^2 \times 5^4$
2	a	81	b	16	c	1 (150)	d	10000
	e	32	f	243	g	256	h	256
	i	-32	j	81	k	1 11 14	1	625
3	a	2.07	b	2293.45	c	148.04	d	92.35
	e	2.86	f	-9161.33	g	113.38	h	-2751.26
4	a	10 <sup>3</sup>	b	311	c	Doesn't s		
		76	e	188	f	p <b>9</b>	g	6x <sup>11</sup>
	h	$3m^4$						
5	a	1	b	1		1		
		400	b	288	c	16 000	d	450