

Answer Key | Lower Secondary

Stage (6-8)

1st Semester | 2023-2024 **Subject:** Math **Objectives:** To review the answers of chapter 9.

Chapter: 9

Student book

Summary Check Out 1 $\mathbf{a} = 80^{\circ}$ $\mathbf{b} = 66^{\circ}$ 2 $\mathbf{a} = 38^{\circ}, b = 142^{\circ}$ $\mathbf{b} = c = 64^{\circ}, d = 116^{\circ}$ 3 $a + b + c = 180^{\circ}$ because angles in triangle add up to 180° $b + x = 180^{\circ}$ because angles on a straight line add up to 180° a + b + c = b + x because they both equal 180° C there is the constraint of the because they both equal 180°

Subtracting *b* from both sides gives us: a + c = x4 $a = 120^\circ$, $b = c = 60^\circ$, $d = e = 80^\circ$

5 a (3, 5) **b** (4.5, 3)

Chapter 9

	heck in a 0.3	b 0.8	- 0.005 1.005	
			c 0.625 d 0.35	
2	a i $\frac{3}{4}$	ii $\frac{11}{12}$	iii $4\frac{1}{6}$	
· · · · ·	iv $1\frac{50}{63}$	$\mathbf{v} \frac{1}{6}$	vi 1 ⁷ / ₈	
	b $\frac{5}{6}$ litre			
3	a 840	b 1127	c 4056	
	d 8308	e 1248		
E	xercise 9A	1012012115C		
1	12, 3.2 × 4 = 6, 1.68 × 3 =	= 12.8; 63, 6. = 5.04; 130,	$9 \times 39 = 62.1; 240, 32.5 \times 8 =$ $12.4 \times 13 = 161.2$	260;
2	a 3.2	b -5.4	c 11.5 d 37.6	
	e -8.4	f -7.2	g 4.62 h -2.6	
	i -25.92	j 58.2	B	
3	\$5.40			
4	8.4 kg			
5	a 85.5	b -85.5	c 8.55 d 8.55	
	e 8.55	f 0.855	u 8.55	
6	They both in have 3 d.p. in	volve multip	lying the digits 234×6 and the n so will have 3 d.p. in the answ	y both

7 a 1.7 e 0.164 i 3.164 m 0.322 q 0.1044 8 65 m	 b 2.136 f 0.288 j 0.192 n 0.988 r 0.04 	c 0.16 g 24.92 k 4.779 o 5.29	d 5.005 h 0.0272 l 0.0036 p -2.59
\$923.64 0 a 0.951 e 0.9166 1	b 0.872 f 5.22	c 7.896 g 5.904	d 0.495
×	0.8	1.2	15 mount 25
-5	-4	-6	
0.5	0.4	0.6	
0.25	0.2	0.3	
0.125	0.1	0.15	
2 30.25 cm ² 3 a 2.08	b 3.22	c 0.12	d 0.256

-	xercise 9B			
1	a by 9	b 10	c 10	d $720 \div 9 = 80$
2	<i>x</i> , -60, 2, 30			
3	a i 8	ii 8	bi7	ii 7
	ci -8	ii -8	d i 16	ii 16
	e i 9.1	ii 9.1		8 1-21
4	a 14	b -160	c -190	d 2.5
	e 230	f 12	g 2.3	u 2.0
. 5	a 24.5	b 17.2	c 12.6	d 430
	e 214			u 450
6	6 cm			
7	0.62 m/s			
8	a \$8.20	b \$6.15		











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Eco-Schools

E	Exercise 9	С	and the second se	Strong them must?	
1			X	by 0.65	
	To decrea	se by 35%	XE	by 1.3	
	To decrease	se by 5%	XE	by 1.35	
	To increas	e by 30%	X	by 0.7	
	To decrease	se by 30%	XX	by 1.05	
	To increas	e by 5%	/ \x	by 0.95	
2	Kulwinder The correct 24000×1 .	working is		as decreased by 8%	
	New cost \$				
3		b 0.83	c 0.4	d 1.24	
	e 0.96	f 1.08	g 0.82	h 1.8	
	i 1.125	j 0.945	k 5	1 -2	
4	5390t				
5	a 170 km	b \$1125	c 459 ml	d 4370 cm	
	e 129 kg	g 1350			
6	\$138				
7	a \$252	b \$392			
8	\$85.80				
	74.8 kg				
	156				
2000	\$285				
12	57.6kg		Contraction of the		
13 :	a 221	b 312			
14 -	300				
15 :	a -30 km	b \$375	c 34 ml	d -1380 cm	
	e 86 kg	g 1050			
		se is higher	b \$60		
17 9					
	\$40 000		32 000		
19 8	\$16 384	b \$2	29 524.50		

Ex	er	cise 9D		1 with	
1	Su	ibtract $2\frac{2}{2}$	from $3\frac{2}{9}$ to get	et 1, then add	this to $2\frac{1}{8}$
			101 1110 101 101 101		Careful Carefu
			b 284.229b 8.48	c 0.8118 c $5\frac{3}{8}$	d 25.96
					u 09
4	9	21	b $2\frac{1}{4}$	$c^{3\frac{33}{10}}$	•
5	a	$\frac{1}{24}$	b $1\frac{17}{30}$	c $\frac{3}{20}$	
6	a	$2\frac{1}{8}$	b $1\frac{1}{20}$	c $1\frac{1}{10}$	
Ex	er	cise 9			
		-14.1	b -0.48	c -6.4	d -8.8
2	a	67.86	b -67.86	c 6.786	d 0.06786
	e	2340	f 290		
3	a	1.38	b 0.0152	c 9.576	d 2.496
	e	3.12			
4	a	20	b 40	c 23.9	d 144
	e	7.9			
5	a	\$123.60	b \$131.02		
6	3.	78 cm ²			
7	a	251.2 m ²	b 66.5 m		
8	a	1.02	b 0.73	c 0.47	d 1.35
	e	1.4			
9	\$9	78.50			
10	79	20			
11	a	\$60.45	b \$59.15	. 1	
12	a	45	b 680	c $16\frac{1}{4}$	
S	un	nmary			
		ck out			
		1.6	b 2.96	c 7.32	d 0.252
-			f 0.5712		
2			b 20	c 12	
2		29	e 11	and .	
2			b 440 km	c 725g	d 281
		\$84		1205	i dat (here is a let
4	a	180	b 11.48		

Homework book

a vilor			
9A			
1 a 26	b 158.3	c 0.4	d 504.5
e 4700	f 360	g 2910	h 4440
i 60	j 17.6	k 165430	1 74200
2 a 2.7	b 5.6	c 19.8	d 22.8
e 28.8	f 62.4	g 45.1	h 7.2
i 41.4			A Start "
3 34.8 m	h iller	AT NO.	4. 33auna
4 a 2.4	b 1.95	c 5.81	d 14.58
e 22.84 i 0.546	f 1.144	g 0.865	h 79.44
m 23.22	j 0.64	k 0.0025 o 12.25	1 22.09
5 \$33.30	n ~2.952	0 12.25	the stand of the stand
6 \$1494.78			
7 7424.4 kg			the first of a
8 42.25 cm ²			1 37
0 42.25 Cm	1 644		1-1-1+ 3
		1	
9B		10	1 10
1 a 40 e 15	b 30 f 12	c 12 g 600	d 40 h 160
i 1200	j 2.5	k 67	1 86
2 a 3.4	b 15.8	c 0.67	d 36.7
e 27	f 11	g 4.2	h 5.2
i 0.082	b 9505	Sprace	a strat p
3 a -132.5	b -860	c -3550	d -587.5
e -340	f -300	C 5550	u 307.5
		and the second second	
4 a \$3.45	b \$2.76		
5 1.85 cm			
6 1375000			
79			
8 28.5			
90			
1 a 1.4	b 1.03	c 1.065	d 0.76
e 0.92			
2 a 405kg	h 56 16m	c \$80.18	d 63 km
e 502.21			
3 \$784	2 d		
4 \$5070			
5 \$127.50			
6 \$963.20			
7 \$442.80 8 90.675			
8 89 675 9 \$13 996.80			
\$ \$15 990.80		1 3 6	10 M

9D **1** a $2\frac{3}{4}$ b $5\frac{3}{11}$ c $6\frac{4}{11}$ d $3\frac{3}{5}$ e $9\frac{3}{5}$ f $8\frac{1}{3}$ g $42\frac{1}{2}$ h 127 i $245\frac{1}{3}$ 2 a $4\frac{1}{3}$ b $\frac{2}{9}$ c $5\frac{1}{5}$ d $2\frac{7}{20}$ e $\frac{4}{45}$ f $1\frac{7}{12}$ g $1\frac{5}{8}$ h $\frac{2}{3}$ i $\frac{91}{600}$ 3 a 2 b $5\frac{1}{5}$ c $6\frac{4}{5}$ d 16 e $2\frac{34}{43}$ f $10\frac{13}{20}$ g $5\frac{13}{20}$ h $4\frac{1}{4}$ i $2\frac{1}{2}$