

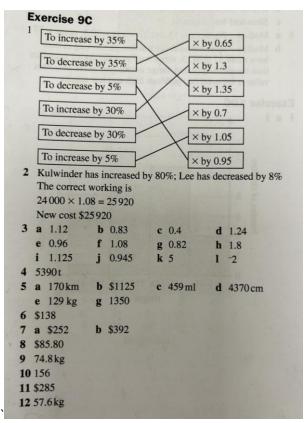
## **Answer Key Chapter 9**

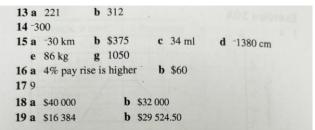
## Student book

### Summary **Check Out** $1 \ a = 80^{\circ}$ $\mathbf{b} = 66^{\circ}$ 2 a $a = 38^{\circ}, b = 142^{\circ}$ **b** $c = 64^{\circ}, d = 116^{\circ}$ 3 $a + b + c = 180^{\circ}$ because angles in triangle add up to $180^{\circ}$ $b + x = 180^{\circ}$ because angles on a straight line add up to $180^{\circ}$ a + b + c = b + x 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** Check in 1 a 0.3 **b** 0.8 c 0.625 **d** 0.35 2 a i $\frac{3}{4}$ ii $\frac{11}{12}$ $\mathbf{v} = \frac{1}{6}$ **b** $\frac{5}{6}$ litre 3 a 840 **b** 1127 c 4056 **d** 8308 e 1248 **Exercise 9A** $12, 3.2 \times 4 = 12.8; 63, 6.9 \times 39 = 62.1; 240, 32.5 \times 8 = 260;$ $6, 1.68 \times 3 = 5.04; 130, 12.4 \times 13 = 161.2$ 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 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 6 They both involve multiplying the digits $234 \times 6$ and they both have 3 d.p. in the question so will have 3 d.p. in the answer.

1100000			
a 1.7 e 0.164 i 3.164 m 0.322 q 0.1044	<ul> <li>b 2.136</li> <li>f 0.288</li> <li>j 0.192</li> <li>n 0.988</li> </ul>	c 0.16 g 24.92 k 4.779 o 5.29	d 5.005 h 0.0272 l 0.0036 p -2.59
55 m	r 0.04		
6923.64			
0.951	<b>b</b> 0.872 <b>f</b> 5.22	c 7.896 g 5.904	<b>d</b> 0.495
×	0.8	1.2	2   5 mount 2   5
-5	-4	-6	
0.5	0.4	0.6	
0.25	0.2	0.3	
0.125	0.1	0.15	
0.25 cm <sup>2</sup>	0.1 <b>b</b> 3.22	0.15 c 0.12	

E	xercise 9B			
1	<b>a</b> by 9	<b>b</b> 10	c 10	<b>d</b> $720 \div 9 = 80$
2	x, -60, 2, 30			u /20 - 9 = 80
3	a i 8	ii 8	bi7	ii 7
	c i -8	ii -8	d i 16	ii 16
	e i 9.1	ii 9.1		8 2
4	a 14	<b>b</b> -160	c -190	d 2.5
	e 230	f 12	g 2.3	2.5
. 5	a 24.5	<b>b</b> 17.2	c 12.6	<b>d</b> 430
	e 214			4 430
6	6 cm	,		
7	0.62 m/s			
8	a \$8.20	b \$6.15		

















# Exercise 9D 1 Subtract $2\frac{2}{9}$ from $3\frac{2}{9}$ to get 1, then add this to $2\frac{1}{8}$ 2 a 576.477 b 284.229 c 0.8118 d 25.96 3 a 630 b 8.48 c $5\frac{3}{8}$ d 69 1 a $2\frac{1}{6}$ b $2\frac{1}{4}$ c $3\frac{33}{40}$ 2 a $\frac{1}{24}$ b $1\frac{17}{30}$ c $\frac{3}{20}$ 3 a $2\frac{1}{8}$ b $1\frac{1}{20}$ c $1\frac{1}{10}$

E	xei	rcise 9						
1	a	-14.1	b	-0.48	c	-6.4	d	-8.8
2	a	67.86	-	-67.86	c	6.786	d	0.06786
	e	2340	-	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 <sup>2</sup>						
7	a	251.2 m <sup>2</sup>	b	66.5 m				
8	a	1.02	b	0.73	c	0.47	(	1.35
	e	1.4						
9	\$9	978.50						
1	0 79	920						
1	1 a	\$60.45	1	<b>b</b> \$59.15		1		
1	2 a	45	1	<b>b</b> 680		c $16\frac{1}{4}$		
						/		
S	ur	nmary						
C	he	ck out						
1	a	1.6	b	2.96	(	7.32		d 0.252
	e	7.536	f	0.5712				
2	-	16	h	20		e 12		
		29	e	11				
3		\$84	b	440 km	100	e 725 g		d 281
4		180	1	11.48				

# **Answer Key Chapter 9**

## **Homework book**

		0.0				0.4		5045
1	a	26	b	158.3	c	0.4		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						
3	34	.8 m						
4	a	2.4	b	1.95	c	5.81	d	14.58
	e	22.84	f	1.144	g	0.865	h	79.44
	i	0.546	j	0.64	k	0.0025	1	22.09
	m	23.22	n	-2.952	0	12.25		
5	\$3	3.30						
6	\$1	494.78						
7	74	24.4 kg						
		.25 cm <sup>2</sup>						

9	В							
1	a	40	b	30	c	12	d	40
	e	15	f	12	g	600	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						
3	a	-132.5	b	-860	c	-3550	d	-587.5
	e	-340	f	-300				

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b $2.76
4 a $3.45
5 1.85 cm
6 1375000
7 9
8 28.5
9C
                                 d 0.76
1 a 1.4
            b 1.03 c 1.065
  e 0.92
             b 56.16 m c $80.18
                                  d 63 km
2 a 405kg
  e 502.21
            f 858kg
3 $784
4 $5070
5 $127.50
6 $963.20
7 $442.80
8 89 675
9 $13 996.80
```

9D			
1 a $2\frac{3}{4}$	<b>b</b> $5\frac{3}{11}$	$c 6\frac{4}{11}$	<b>d</b> $3\frac{3}{5}$
$e^{9\frac{3}{5}}$	$f \ 8\frac{1}{3}$	$g \ 42\frac{1}{2}$	h 127
i $245\frac{1}{3}$			
2 a $4\frac{1}{3}$	$b \frac{2}{9}$	c $5\frac{1}{5}$	<b>d</b> $2\frac{7}{20}$
3	9	5	20
$e^{-\frac{4}{45}}$	$f = 1\frac{7}{12}$	$g^{-1}\frac{5}{8}$	$h^{\frac{2}{3}}$
45	12	8	3
$i = \frac{91}{600}$			
600			
3 a 2	<b>b</b> $5\frac{1}{5}$	$c 6\frac{4}{5}$	<b>d</b> 16
	5	5	<b>u</b> 10
e 234	f 10 13	a -13	2 .1 5 0
e $2\frac{34}{43}$	$f_{10}\frac{13}{20}$	g $5\frac{13}{20}$	h $4\frac{1}{4}$
1 1 50			
i $2\frac{1}{2}$			