SMARTELEARNER.COM

Revision Tests for SEA Mathematics

TEACHER'S EDITION



ETHEREAL PUBLISHERS LIMITED

BRENT BISSOON

Preface

This book is written with the student in mind. There are 34 revision tests in this book which all

examine a different topic. Each test examines the various skills processes, namely knowing,

applying and reasoning, within the four strands of the Mathematics syllabus for level 4 and level

5 students, as outlined by the Ministry of Education.

Each test has been tailored to accurately evaluate the student's competence to reason and think

critically as they all provide newer questions to test various aspects of the three processes.

Questions require students to not just remember and recall information but also to engage in logical

and systematic thinking and include intuitive and inductive reasoning, based on purely

mathematical or real-life type questions. Questions may also involve making logical deductions

based on specific assumptions and rules, and justifying results.

It is hoped that this book will significantly contribute to the readiness of the students who use it to

prepare for the S.E.A. Examination.

Using this book

This Teacher's Edition book is designed to demonstrate to students how the topics taught can be

applied to questions that involve different levels of reasoning and critical thinking. Solutions to

each question are illustrated to remind students of the mathematical concepts taught.

Model answers are laid out in a logical and systematic order and gears towards helping the

student understand how the information provided can be used to derive the answer required

without regurgitating a specific method or procedure.

Brent Bissoon

ii

Table of Contents

Prefacei
Revision Test 1
Topic covered: Number Representation
Revision Test 2
Topic covered: Addition
Revision Test 310
Topic covered: Subtraction10
Revision Test 412
Topic covered: Multiplication12
Revision Test 514
Topic covered: Division14
Revision Test 610
Topic covered: Number Sentences10
Revision Test 722
Topics covered: Problem Solving- Mixed Operations22
Revision Test 825
Topics covered: Type of numbers, square numbers and square root of numbers29
Revision Test 932
Topics covered: Patterns32
Revision Test 1034
Topics covered: Direct Proportion34
Revision Test 1132
Topics covered: Unequal Sharing3

Revision Test 12	39
Topics covered: Conversion between fractions, decimals and percentages	39
Revision Test 13	42
Topics covered: Representing and ordering fractions, equivalent fractions	42
Revision Test 14	45
Topics covered: Addition and subtraction of fractions	46
Revision Test 15	52
Topics covered: Multiplication and division of fractions	52
Revision Test 16	55
Topics covered: Multi-step fraction questions	55
Revision Test 17	59
Topics covered: Decimals- mixed operations	59
Revision Test 18	64
Topics covered: Multi-step decimal questions	64
Revision Test 19	66
Topics covered: Percentages	66
Revision Test 20	69
Topics covered: Money, bills and change	69
Revision Test 21	78
Topics covered: Discount and savings	78
Revision Test 22	80
Topics covered: Profit and loss, best buy	80
Revision Test 23	83
Tonics covered: Metric system- length and mass	83

Revision Test 2487
Topics covered: Time87
Revision Test 2594
Topics covered: Area and perimeter94
Revision Test 26100
Topics covered: Capacity and volume100
Revision Test 27102
Topics covered: Solids102
Revision Test 28107
Topics covered: Cross-Sections107
Revision Test 29112
Topics covered: Plane shapes112
Revision Test 30121
Topics covered: Symmetry123
Revision Test 31129
Topics covered: Angles129
Revision Test 32135
Topics covered: Geometric patterns135
Revision Test 33143
Topics covered: Representation and analysis of data143
Revision Test 34152
Topics covered: Mode and mean152

Topic covered: Number Representation Time: 30 minutes

Maximum Mark: 85

Your Mark: _____

1.	a)	
	Answer Six hundred and seventeen thousand, three hundred and ninety-	
	two.	(1 mark)
	b)	
	Answer Three hundred and seven thousand and sixty-six.	(1 mark)
	c) Answer One million, three thousand, three hundred and thirty-three.	
		(1 mark)
	d)	
	Answer Four hundred and seventy-eight thousand, two hundred and	
	ninety-eight.	(1 mark)
	e)	
	Answer Five hundred and eight thousand, three hundred and eighty-	
	eight.	(1 mark)
	f)	
	Answer Thirty-eight thousand, two hundred and seventy-four.	(1 mark)
	g)	

Answer	Nine hundred and twenty-seven thousand, five hundred and	
thirty-ni	ne.	(1 mark)
h) Answer	Sixty-two thousand and eighty-four.	(1 mark)
i) Answer twenty-e	Three hundred and twenty-six thousand, four hundred and eight.	(1 mark)
	Seven thousand and forty-eight.	(1 mark)
2. a) Answer	1 000 011	(1 mark)
b) Answer	704 000	(1 mark)
c) Answer	58 012	(1 mark)
d) Answer	1 324 460	(1 mark)
e)		

Answer 703 580	(1 mark)
f)	
Answer 80 418	(1 mark)
	, ,
g)	
Answer 927 035	(1 mark)
7 HISWOI 727 033	(1 mark)

3.

Numeral	Place Value	Value
	Hundred	600
	Million	1 000 000
	Tens	90
	Ones	3
	Thousand	1 000
	Hundreds of thousand	400 000
	Tens of thousand	40 000
	Hundredths	$\frac{7}{100}$ or 0.07
	Tenths	$\frac{6}{10}$ or 0.6
	Tens of thousand	70 000
	Million	1 000 000

	Tens	0
	Hundredths	$\frac{8}{100}$ or 0.08
	Tenths	$\frac{0}{10}$ or 0.0

(28marks)

Answer
$$(9 \times 1\ 000\ 000) + (6 \times 100\ 000) + (5 \times 10\ 000) + (4 \times 1000) + (3 \times 100) + (2 \times 10) + (1 \times 1)$$
 (1 mark)

b)

Answer
$$(4 \times 100\ 000) + (3 \times 10\ 000) + (0 \times 1\ 000) + (0 \times 100) +$$

 $(8 \times 10) + (7 \times 1)$ (1 mark)

c)

Answer
$$(7 \times 1\ 000\ 000) + (0 \times 100\ 000) + (3 \times 10\ 000) + (0 \times 100) + (0 \times$$

d)

Answer
$$(4 \times 100) + (3 \times 10) + (6 \times 1) + (7 \times \frac{1}{10}) + (8 \times \frac{1}{100})$$
 (1 mark)

e)

Answer
$$(6 \times 100\ 000) + (1 \times 10\ 000) + (3 \times 1\ 000) + (9 \times 100) +$$

 $(7 \times 10) + (2 \times 1) + \left(9 \times \frac{1}{10}\right) + (8 \times \frac{1}{100})$

(1 mark)

a) Answer 8097 (11) b) Answer 5 006 000 (11) c) Answer 804 030 (11) d) Answer 50 380 (11) e) Answer 850 611 (11) Approximate to the Numeral Nearest 10 Nearest 1000 30		
b) Answer 5 006 000 (1 m c) Answer 804 030 (1 m d) Answer 50 380 (1 m e) Answer 850 611 (1 m		a)
Answer 5 006 000 c) Answer 804 030 (1 1) d) Answer 50 380 (1 1) e) Answer 850 611 (1 1) Approximate to the Numeral Nearest 10 Nearest 100 Nearest 1000)97	Ansv
Answer 5 006 000 c) Answer 804 030 (1 1) d) Answer 50 380 (1 1) e) Answer 850 611 (1 1) Approximate to the Numeral Nearest 10 Nearest 100 Nearest 1000		
c) Answer 804 030 (1 m d) Answer 50 380 (1 m e) Answer 850 611 (1 m Approximate to the Numeral Nearest 10 Nearest 100 Nearest 1000		b)
Answer 804 030 d) Answer 50 380 (1 1 e) Answer 850 611 (1 1 Approximate to the Numeral Nearest 10 Nearest 100 Nearest 1000	006 000	Ansv
Answer 804 030 d) Answer 50 380 (1 1 e) Answer 850 611 (1 1 Approximate to the Numeral Nearest 10 Nearest 100 Nearest 1000		
d) Answer 50 380 (1 r e) Answer 850 611 (1 r Approximate to the Numeral Nearest 10 Nearest 1000		c)
Answer 50 380 (1 mg) e) Answer 850 611 (1 mg) Approximate to the Numeral Nearest 10 Nearest 100 Nearest 1000	04 030	Ansv
Answer 50 380 (1 mg) e) Answer 850 611 (1 mg) Approximate to the Numeral Nearest 10 Nearest 100 Nearest 1000		
e) Answer 850 611 (1 1 Approximate to the Numeral Nearest 10 Nearest 100 Nearest 1000		d)
Answer 850 611 Approximate to the Numeral Nearest 10 Nearest 100 Nearest 1000	380	Ansv
Answer 850 611 Approximate to the Numeral Nearest 10 Nearest 100 Nearest 1000		
Approximate to the Numeral Nearest 10 Nearest 100 Nearest 1000		e)
Numeral Nearest 10 Nearest 100 Nearest 1000	50 611	Ansv
Numeral Nearest 10 Nearest 100 Nearest 1000		
Numeral Nearest 10 Nearest 100 Nearest 1000		Г
Nearest 10 Nearest 100 Nearest 1000	Jumaral	
30	(uillelal	
70		
110 100		
670 700		

780 800 550 500 5970 6000 6000 7430 7400 7000 5680 5700 6000 8750 8800 9000 3470 3500 3000				
5970 6000 6000 7430 7400 7000 5680 5700 6000 8750 8800 9000		780	800	
7430 7400 7000 5680 5700 6000 8750 8800 9000		550	500	
5680 5700 6000 8750 8800 9000		5970	6000	6000
8750 8800 9000		7430	7400	7000
		5680	5700	6000
3470 3500 3000		8750	8800	9000
		3470	3500	3000
3510 3500 4000		3510	3500	4000

(30marks)

7.

a)

Numeral: 648

Word Name: Six hundred and forty-eight.

Expanded Notation: $(6 \times 100) + (4 \times 10) + (8 \times 1)$

b)

Numeral: 464

Word Name: Four hundred and sixty-four.

Expanded Notation: $(4 \times 100) + (6 \times 10) + (4 \times 1)$

c)

Numeral: 557

Word Name: Five hundred and fifty-seven.

```
Expanded Notation: (5 \times 100) + (5 \times 10) + (7 \times 1)
d)
   Numeral: 431232
    Word Name: Four hundred and thirty-one thousand, two hundred and thirty-two.
   Expanded Notation: (4 \times 100000) + (3 \times 10000) + (1 \times 1000) +
    (2 \times 100) + (3 \times 10) + (2 \times 1)
e)
   Numeral: 543024
    Word Name: Five hundred and forty-three thousand and twenty-four.
   Expanded Notation: (5 \times 100000) + (4 \times 10000) + (3 \times 1000) +
   (0 \times 100) + (2 \times 10) + (4 \times 1)
f)
   Numeral: 543443
    Word Name: Five hundred and forty-three thousand, four hundred and forty-three
         Expanded Notation: (5 \times 100000) + (4 \times 10000) + (3 \times 1000) +
                             (4 \times 100) + (4 \times 10) + (3 \times 1)
                                                                             (18marks)
```

Topic covered: Addition	Time: 12 minutes
Maximum Mark: 16	Your Mark:

1. 384	2. 4304
3. 9445	4. 2884
5. 10 721	6. 1358
7. 17 448	8. 9990

(8 marks)

9.	Answer 11 120	(1 mark)
10.	Answer 225	(2 marks)
11.	Answer 8800	(1 mark)
12.	Answer 231	(1 mark)
	a) Answer 398	(1 mark)
13.	`	
	a) Answer 678	(1 mark)
	b) Answer 1096	(1 mark)

Topic covered: Subtraction

Maximum Mark: 14

1. 4953

2. 52

3. 874

4. 124

5. 1595

6. 2698

7. 784001 8. 685564

(8 marks)

9.	Answer 3077 students	(1 mark)
10.	Answer 625	(1 mark)
11.		
	a)	
	Answer 789	(1 mark)
	b)	
	Answer 431	(1 mark)
12.		
	Answer 831	(1 mark)
13.		
	Answer 142	(1 mark)

Topic covered: Multiplication Time: 15 minutes Maximum Mark: 13 Your Mark: _____ 1. 1323 2. 37539 3. 7728 4. 1 000 000 5. 45024 6. 394831

(6 marks)

7.	Answer 864 hours	(2 marks)
8.	Answer 14 393	(1 mark)
9.	Answer 348	(1 mark)
10.	Answer 625	(1 mark)
11.	Answer 3840	(1 mark)
12.	Answer 720	(1 mark)

Topic covered: Division		Time: 12 minutes
Maximum Mark: 14		Your Mark:
1. 142	2. 369	
3. 95 R2	4. 68 R4	
5. 95	6. 6292 R7	

(6 marks)

7.	Answer 132	(1 mark)
8.	Answer 25	(1 mark)
9.	Answer 60	(1 mark)
10.	Answer 25	(1 mark)
11.	Answer 4	(2 mark)
	Answer In the case where 100 is being divided by 12, the dividend is 100 while the divisor is 12. Whenever the divisor is not a factor of the dividend a remainder is expected. A remainder is obtained because an exact number of groups of the divisor cannot be formed from the dividend which results in remaining units. In the case of $100 \div 12$, only 8 groups of 12 can be obtained and there are 4 remaining. This remainder is 4 out of 12 in the group which is equivalent to $\frac{1}{3}$ or 0.33.	(2 marks)
1		

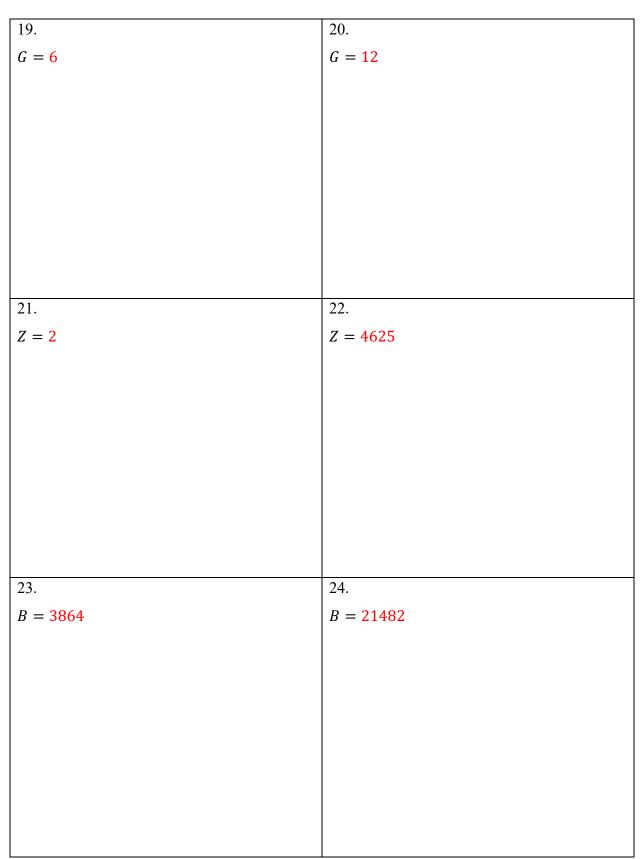
Topic covered: Number Sentences Time: 20 minutes

Maximum Mark: 24 Your Mark: _____

1.	2.
X = 185	X = 4551
3.	4.
Y = 3707	Y = 1063
_	
5.	6.
V = 11001	V = 8090

7.	8.
A = 589	A = 1556
11 = 307	11 = 1000
9.	10.
P = 1395	P = 2008
11.	12.
Q = 1100	Q = 8799

13.	14.
H = 27	H = 43
15	
15.	16.
T = 60	T = 63
17.	18.
K = 34	K = 88



(24 marks)

25. 5500	26. 47
23. 8800	20. 17
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36
27. 82	28. 36

(8 marks)

29. a) X = 17
b) X = 14
c) X = 28

(3 marks)

30. a)
Answer 214
(2 mark)
b)
Answer 1
(2 mark)

Topics covered: Problem Solving- Mixed Operations

Maximum Mark: 40

Your Mark: _____

1.	Answer 19	(2 marks)
2.	Answer Since the total number of students in the school is 500, to find the number of students who use private vehicles, I subtracted the total number of students whose mode of transportation I knew from the total student population given. My answer, 163, represents the number of students who use private vehicles as their mode of transport.	
		(4 marks)
3.	Answer 448	(2 marks)
4.	Answer 384	(2 marks)
5.	Answer 54	(2 marks)
	a) Answer First, I found the number of cherries Andrew has $(94 \times 6 = 564)$. I then calculated how many cherries Andrew and	(2 marks)

	Kareema had altogether $(564 + 94 = 658)$. Finally, I calculated the	
	number of groups of 12 that can be obtained by dividing 658 by 12 which	
	resulted in 54 groups.	
6.		
	Answer 56 years	(2 marks)
7.		
	Answer 8208	(2 marks)
8.		
	Answer 68	(4 marks)
9.	A	(2 a vlva)
	Answer 8	(3 marks)
10.	a)	
	Answer 438 cakes	(2 marks)
	b)	
	Answer 70 weeks	(2 marks)
11.	a)	
	Answer 12	(2 marks)
	b)	

	Answer	First I found the number of slices required to feed 46 persons	
	(46×2)	= 92). Then I found the exact number of pizzas needed by	
	dividing	92 by 8 which resulted in $11\frac{1}{2}$ pizzas. Therefore, 12 whole	
	pizzas w	rill need to be purchased.	
			(2 marks)
12.			
	Answer	21 buses	(3 marks)
10			
13.	a)		(2 1)
	Answer	5/	(2 marks)
	b)		
	Answer	9 rows	(2 marks)
14.			(2 1)
	Answer	14 roses	(2 marks)
15.	a)		
	Answer	46 <i>m</i>	(2 marks)
	b)		
	Answer	28 <i>m</i>	(2 marks)

Revision Test 8Topics covered: Type of numbers, square numbers and square root of numbers

Time: 45 minutes Maximum Mark: 72

Your Mark: _____

	a)		
	Answer 2, 18	3, 36, 50	(1 mark)
	b)		
	Answer 1, 5,	9, 13, 15, 21, 25, 41, 43	(1 mark)
	c)		
	Answer 2, 5,	13, 41, 43	(1 mark)
	d)		
	Answer 9, 1	5, 18, 21, 36	(1 mark)
	e)		
	Answer 1, 2,	5, 25, 50	(1 mark)
2.			
2.	Number	Multiples	Factors
2.	Number	Multiples 6, 12	Factors 1, 2, 3, 6
2.	Number		

	31,62	1,31
	14,28	1, 2, 7, 14
	17,34	1, 17
	20,40	1, 2, 4, 5, 10, 20
	24, 48	1, 2, 3, 4, 6, 8, 12, 24
	40,80	1, 2, 4, 5, 8, 10, 20, 40
	47,94	1, 47

(20marks)

3.

Answer A factor of a number is any number that can be divided exactly by the number while a multiple of a number is a number obtained from multiplying the number by another.

For example, 6 is a factor of 18, since 18 can be divided by 6 an exact number of times, and 6 is also a multiple of 3 since 6 can be obtained by multiplying 3 by 2.

(3 marks)

4.				
	Answ	er Prime numbers are	numbers whose only factors are 1 and itself.	
	Seven	nteen is an example of a	a prime number since 1 and itself (17) are its	
	only	factors. Composite nun	nbers are numbers that have three or more	
	factor	rs. In other words, no	umbers that are not prime numbers are	
	comp	osite numbers. For exam	nple, 10 is a composite number as 1,2,5, and	
	10 ar	e factors.		
				(3 marks)
				(3 mai ks)
5.				
	Answ	ver A square number i	is the result of the product of a number by	
	itself	while a multiple of a n	umber is a number obtained by multiplying	
	the nu	umber by another. There	efore, Shenelle's answer is not fully correct.	
	Both	48 and 16 are multiples	s of 4, however, 145 is not a perfect square	
	numb	er while 25 is. Thus, Sh	nenelle's answer is not correct.	
				(3 marks)
6.	Compl	ete the table below.		
		Number	Square of number	
			-	

	9	
	16	
	25	
	36	
	49	
	64	
	81	
	100	
	121	
	144	
	(10ma	ırks)

7 700	0 225
7. 729	8. 225
0 500	
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521
9. 529	10. 1521

11 00	10 10
11. 20	12. 16
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25
13. 40	14. 25

(16 marks)

15. a) Answer 5	(3 marks)
Answer 550	(3 marks)
b) Answer 175	(3 marks)
a) Answer $1\frac{1}{4}$	(3 marks)

Topics covered: Patterns Time: 20 minutes

Maximum Mark: 30 Your Mark: _____

1. **Pattern** Pattern rule Consecutive odd numbers A repeating pattern where 5,9,13,16 is repeated. Add 5 then subtract 3 consecutively. Square root of consecutive perfect square numbers. Even square numbers in descending order. Repeating sequence where 123 is repeated. Add 1 to the previous rule to get the next term. *Divide by 2 to get the next term.* Multiplied by 3 to get the next term.

(9 marks)

	Missing alone and
Pattern	Missing elemen
	A = 64
	$B=\sqrt{49}$
	C = 21
	A = 1
Repeating sequence	B = 5
	C = 7
	A = 59
+18, +15, +12, +9, +6, +3	B=65
, , , ,	C = 68
	A = 6
+1, +2, +3, +4, +5, +6, +7	B = 24
	<i>C</i> = 31
	A = 9
Pattern rule: +5, -3	B = 20
	<i>C</i> = 17
	A = 49
Consecutive square numbers	B = 100
	C = 121
	A = 14
Consecutive multiples of 7	B = 42 $C = 49$
1	

Topics covered: Direct Proportion

Time: 40 minutes

Maximum Mark: 40

Your Mark: _____

1.	Answer \$28.48	(1 mark)
2.	Answer 14093 pages	(1 mark)
3.	Answer \$3281.25	(2 marks)
4.	Answer 42 cherries	(3 marks)
5.	Answer \$142.50	(3 marks)
6.	Answer 6566 cakes	(2 marks)
7.	a) Answer 39 books	(2 marks)
	b) Answer 195 books	(1 mark)
8.	Answer 89 cents or \$0.89	(2 marks)

9.		
	Answer 500USD	(3 marks)
10	\ \	
10.	a) Answer 3.40 <i>cm</i>	(1 mark)
	Allswei 5.40cm	(1 mark)
	b)	
	Answer 140km	(1 mark)
11.		
	Answer \$5.33	(3 marks)
12.		
12.	Answer \$15.45	(2 marks)
		,
13.		
	Answer \$6.50	(3 marks)
14.	Λ	(2 moules)
	Answer \$7.26	(3 marks)
15.		
	Answer	
	\$9.99 per cookie	
	\$4.50 per soft drink.	(4 marks)
		(1 mai k3)
14	۵)	
16.	a)	

Answer 2 days	(2 marks)
b)	
Answer 10 days	(2 marks)

Topics covered: Unequal Sharing Time: 30 minutes

Maximum Mark: 42 Your Mark: _____

1.	Answer $Shevelle = 33, Shaydon = 72$	(3 marks)
2.	Answer $Pam = \$4275$, $Andy = \$8775$	(3 marks)
3.	Answer $Tee - shirt = $337.50, Shirt = 487.50	(3 marks)
4.	Answer Shawnte = \$275	(3 marks)
5.	Answer $Men = 633, Women = 867$	(3 marks)
6.	Answer $Cyan = 5$ years, $Shreya = 10$ years	(3 marks)
7.	Answer $Joe = $119, Barry = 833	(3 marks)
8.	Answer 27 coconuts	(3 marks)
9.	Answer $Soft drink = 34 cases, water = 68 cases$	(3 marks)

```
10.
      Answer Pens = 95, Pencils = 57
                                                                    (3 marks)
11.
      Answer
      Jada = $58
      Dorian = \$39
      Shane = $25
                                                                    (4 marks)
12.
      Answer
      Travis = 10
      Siana = 7
      Sierra = 18
                                                                    (4 marks)
13.
      Answer
      Vendor A = 27
      Vendor B = 39
      Vendor\ C = \_43
                                                                    (4 marks)
```

Topics covered: Conversion between fractions, decimals and percentages Time: 25 minutes

Maximum Mark: 44 Your Mark: ____

Fraction	Decimal	Percent
$\frac{1}{2}$		50%
1/4	0.25	
	0.3333	33 ¹ / ₃ % 33.33%
1 5	0.2	
	0.75	75%
1/10		10%
1 8	0.125	
	0.9	90%
7 8		87.5% 87 ¹ / ₂ %

Fraction	Decimal	Percent
4 5	0.8	
7 10		70%
	0.4	40%
	0.6666	66.66%
3 5	0.6	
5 8		62.5% 62 ¹ / ₂ %
	0.375	37.5% 37 ¹ / ₂ %
3 10		30%

3 20		15%
	= 0.04	4 %
$=\frac{11}{200}$	= 0.055	
	= 0.022	= 2.2%
33 100	0.33	

(44marks)

Topics covered: Representing and ordering fractions, equivalent fractions Time: 30 minutes

Maximum Mark: 32

Your Mark: _____

1.	Shade any 14 blocks.	(1 mark)
2.	Answer $\frac{20}{36} = \frac{5}{9}$	(1 mark)
3.	Shade any 14 blocks.	(2 marks)
4.	a) Answer 84	(1 mark)
	b) Answer 6	(1 mark)
	c) Answer 66	(1 mark)
	d) Answer 30	(1 mark)
5.	a) $> \frac{63}{84} \frac{36}{84} \text{ or } \frac{9}{12} \frac{9}{21} \text{ (same numerator)}$	(1 mark)

b) $> \frac{54}{60} \frac{50}{60}$

(1 mark)

c) = $\frac{57}{76} = \frac{57}{76}$

(1 mark)

Answer Improper fractions are fractions where the numerator is greater than the denominator, thus, the fraction has more parts than a whole. An example of an improper fraction is $\frac{5}{2}$. Proper fractions are fractions where the numerator is smaller than the denominator, thus, the fraction has less parts than a whole. An example of a proper fraction is $\frac{2}{5}$. Therefore, the improper fraction will be larger than the proper fraction since an improper fraction is always greater than a whole and a proper fraction is always smaller than a whole.

(3 marks)

7. a

Answer $\frac{4}{9}, \frac{1}{2}, \frac{2}{3}, \frac{5}{6}$

(2 marks)

b)

Answer $\frac{3}{4}, \frac{9}{14}, \frac{1}{2}, \frac{2}{7}$

(2 marks)

c`

Answer $\frac{5}{8}, \frac{5}{9}, \frac{5}{12}, \frac{5}{26}$

(2 marks)

Complete the table below. 8. Improper Fraction Mixed Number $7\frac{9}{13}$ $\frac{11}{4}$ $\frac{61}{9}$ $\frac{133}{12}$ $\frac{63}{4}$ (8 marks) 9. a)

Answer $\frac{1}{3}$ (1 mark)

b)

Answer $\frac{11}{24}$ (1 mark)

c)

Answer $\frac{4}{5}$ (1 mark)

d)

Answer $\frac{1}{5}$ (1 mark)

Topics covered: Addition and subtraction of fractions	Time: 45 minutes

Maximum Mark: 35 Your Mark: ____

1. $\frac{11}{15}$	2. $1\frac{2}{5}$
3. $1\frac{2}{45}$	4. \frac{15}{16}
$5.1\frac{5}{12}$	6. $\frac{19}{20}$

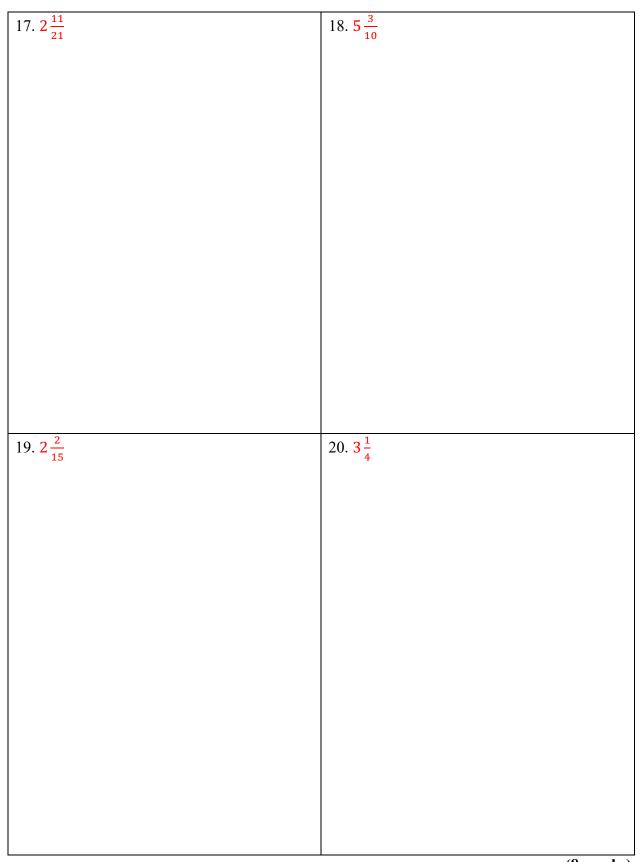
(6 marks)

7. $6\frac{3}{4}$	8. $10\frac{1}{9}$
7. 0	0. 10 ₉
•	
11	40.03
9. 11 ¹¹	$10.9\frac{3}{}$
9. $11\frac{11}{32}$	$10.9\frac{3}{10}$
9. $11\frac{11}{32}$	10. $9\frac{3}{10}$
9. $11\frac{11}{32}$	$10.9\frac{3}{10}$
9. $11\frac{11}{32}$	10. $9\frac{3}{10}$
9. $11\frac{11}{32}$	$10.9\frac{3}{10}$
9. $11\frac{11}{32}$	$10.9\frac{3}{10}$
9. $11\frac{11}{32}$	$10.9\frac{3}{10}$
9. $11\frac{11}{32}$	10. $9\frac{3}{10}$
9. $11\frac{11}{32}$	$10.9\frac{3}{10}$

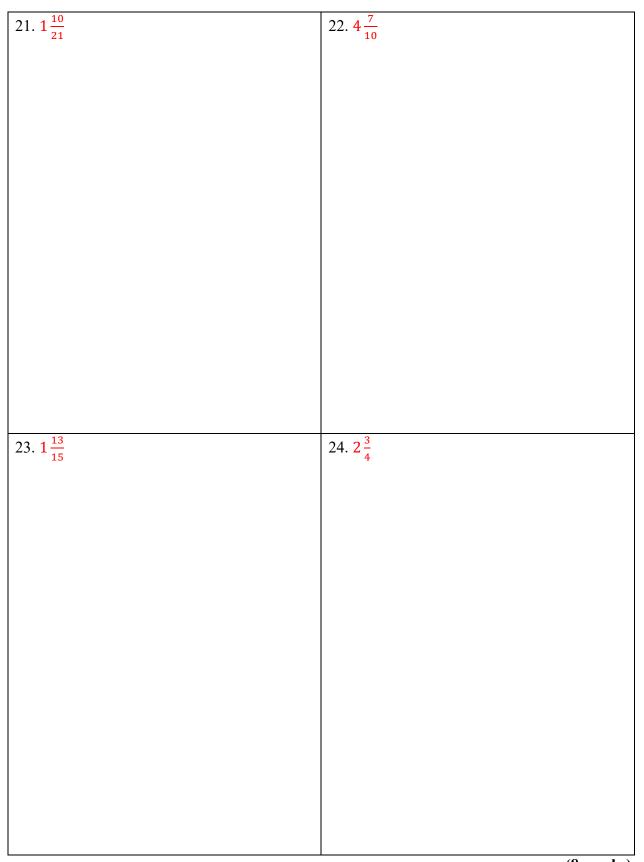
(8 marks)

$11.\frac{5}{11}$	$12.\frac{11}{16}$
II. 	12. —
11	10
$13.\frac{3}{8}$	$14.\frac{1}{30}$
13.8	30
5	4
$15.5\frac{5}{9}$	$16.2\frac{4}{21}$
9	21

(6 marks)



(8 marks)



(8 marks)

25.	Answer $12\frac{1}{8}$	(2 marks)
26.	Answer 560	(2 marks)
27.	a) Answer $\frac{3}{5}$	(1 mark)
	b) Answer $\frac{2}{5}$	(1 mark)
28.		
	a)	
	Answer $\frac{11}{15}$	(1 mark)
	b)	
	Answer $\frac{4}{15}$	(1 mark)
29.	a)	
	Answer $\frac{25}{33}$	(1 mark)
	b)	
	Answer $\frac{8}{11}$	(1 mark)
	c)	
	Answer $\frac{17}{33}$	(1 mark)

Topics covered: Multiplication and division of fractions

Maximum Mark: 31

Your Mark: _____

1. 60	2. 28
1.60	1 2. 28
2 00	4 66
3. 80	4. 28
3. 00	1. 20
	
5. 14	6. 72
J. IT	U. / 4
1	

$7.\frac{1}{5}$	$8.\frac{1}{8}$
7. –	8. –
5	8
1	10. 15
$9.\frac{1}{56}$	10. <mark>15</mark>
ر. 10- ده	-
50	
11. 20	12. 40
11. 40	12. 40

(24 marks)

25.	a) Answer 2L	(2 marks)
	b) Answer $12\frac{1}{4}L$	(1 mark)
26.	a) Answer 9m	(1 mark)
	b) Answer 12 pieces	(1 mark)
27.	Answer 24 years old	(1 mark)
28.	Answer 28 pieces	(1 mark)

Topics covered: Multi-step fraction questions Time: 50 minutes

Maximum Mark: 52 Your Mark: _____

1.		
	a)	
	Answer $2\frac{3}{5}$	(2 marks)
	b)	
		(2)
	Answer $6\frac{3}{8}$	(2 marks)
2.	a)	
	Answer \$70.35	(1 mark)
	b)	
	Answer 85 mangoes	(2 marks)
	c)	
	Answer 105	(2 marks)
3.	a)	
	Answer \$189	(2 marks)
	b)	
	Answer 135 mangoes	(2 marks)
	Answei 155 manyoes	(2 mai K5)
	c)	
	Answer \$42	(3 marks)
4.		

	Answer 18 pineapples	(2 marks)
5.	Answer 30 peaches	(2 marks)
6.	a) Answer $\frac{5}{12}$	(2 marks)
	b) Answer \$84	(1 mark)
7.	Answer $\frac{7}{20}$	(2 marks)
8.	Answer $\frac{8}{21}$	(2 marks)
9.	Answer 400	(3 marks)
10.	a) Answer 36	(3 marks)
	b) Answer $\frac{17}{20}$	(1 mark)
11.	a) Answer $\frac{1}{2}$	(1 mark)
	b) Answer \$150	(2 marks)

12.	a)		
	Answer	\$1920	(2 marks)
	b)		
	Answer	\$4800	(2 marks)
13.			
	Answer	\$48	(4 marks)
14.			
	Answer	<u>1</u> 5	(3 marks)
15.			
	Answer	\$657	(4 marks)
16.			
	Answer	13	(4 marks)
		10	
17.			
	Answer	300 cupcakes	(2 marks)
18.			
	Answer	$F = 5\frac{1}{4}, G = 5\frac{5}{8}$	(4 marks)
		4 8	
19.			
	Answer	$E = 3\frac{7}{12}$	(3 marks)
		12	
20.			
	Answer	$11\frac{13}{24}$	(3 marks)
		4 T	
21.			
	Answer	3 16	(3 marks)
		10	

22.
Answer 10 (4 marks)

Topics covered: Decimals- mixed operations Time: 30 minutes

Maximum Mark: 24 Your Mark: _____

1.	Answer 2.58	(1 mark)
2.	Answer 0.3333	(1 mark)
3.	Answer 0.25	(1 mark)
4.	a) Answer 0.125	(1 mark)
	b) Answer 0.13	(1 mark)
5.	Answer $0.4 = \frac{4}{10} = shade any 4 squares$	(1 mark)
6.	Answer 5.75	(1 mark)
7.	Answer 250	(1 mark)
8.	Answer 0.5	(1 mark)
I		

9.	10.
11.9	11.6
11.	12.
04.05	25.04
94.95	25.94
13.	14.
873.94	233.00

15.	16.
4.21	49.09
17.	18.
26.07	33.99
10	
19.	20.
16.20	02.50
16.39	82.59
I	1

21	22
21.	22.
18.76	4.24
23.	24.
2238.2	504.63
2230.2	30 1.03
25.	26.
70.70	F0.34
78.72	50.36

27.	28.
11.03	16.2
29.	30.
2.04	55.55
31.	32.
	32.
3.09	16.2
	(16 marks)

(16 marks)

Topics covered: Multi-step decimal questions Time: 25 minutes

Maximum Mark: 34 Your Mark: _____

1.	Answer 0.	75	(3 marks)
2.	a)		
	Answer 30	00 oranges	(2 marks)
	b)		
	Answer 0.	8	(2 marks)
3.			
	Answer 0.	91m or 91cm	(2 marks)
4.	a)		
	Answer 0.	125	(2 marks)
	b)		
	Answer 15	5 boys	(2 marks)
5.			
	Answer 18	80 boys	(3 marks)
6.	a)		
	Answer 0.	525	(1 mark)
	b)		
	Answer \$6	63.00	(2 marks)
7.			

	Answer 11.12 <i>m</i>	(3 marks)
8.		
	a)	
	Answer 0.55	(2 marks)
	b)	
	Answer 29 clasrooms are needed	(1 mark)
9.	Answer \$225.00	(3 marks)
10.		
	a)	
	Answer 17.5 marks	(1 mark)
	b)	
	Answer 22 marks	(1 mark)
11.		
	Answer Lyeesha is comparing $\frac{1}{20}$ which is a fraction and 0.05 which is a	
	decimal. If she converts 0.05 to a fraction, she will get $\frac{5}{100}$ which when	
	simplified to its lowest terms becomes $\frac{1}{20}$. Since the numerator indicates	
	the number of parts being considered and the denominator indicates the	
	number of parts the whole is divided into, it is clear that both 0.05 and $\frac{1}{20}$	
	are equal as they both represent 1 part out of 20.	(3 marks)

Topics covered: Percentages Time: 20 minutes

Maximum Mark: 33 Your Mark: ____

1.	a) Answer 22.5	(1 mark)
	b) Answer $33\frac{1}{3}\%$	(1 mark)
	c) Answer 160	(1 mark)
	d) Answer 550	(1 mark)
2.	Answer 39 marbles	(1 mark)
3.	Answer 56 girls	(1 mark)
4.	Answer 18 crayons	(1 mark)
5.	a) Answer 30%	(1 mark)
	b) Answer 1200 persons	(2 marks)
	c)	

	Answer 10%	(1 mark)
6.	a)	
	Answer 150 were ripe	(1 mark)
	b)	
	Answer 75 were rotten	(2 marks)
7.		
	Answer \$38	(2 marks)
8.	a)	
	Answer 72 eggs	(2 marks)
	b)	
	Answer 10%	(1 mark)
9.		
	a)	
	Answer 115	(2 marks)
	b)	
	Answer $33\frac{1}{3}\%$	(2 marks)
10.		
	Answer 55 marbles	(4 marks)
11.		
	a)	
	Ascending Order 30%, 0.3	$35, \frac{1}{2}, 3$ (1 mark)
	Descending Order $3, \frac{1}{2}, 0.3$	35,30% (1 mark)
	2,000	

b)

Ascending Order $0.6666, \frac{7}{8}, 90\%, 6$ (1 mark)

Descending Order $6, 90\%, \frac{7}{8}, 0.6666$ (1 mark)

c)

Ascending Order $\frac{19}{20}, 0.98, 100\%, 7$ (1 mark)

Descending Order $7, 100\%, 0.98, \frac{19}{20}$ (1 mark)

Topics covered: Money, bills and change		Time: 30 minutes
Maximum Mark: 27		Your Mark:
1.	2.	
\$66.00		\$220.00
3.	4.	
фс(A 00		#266F 27
\$664.98		\$2665.27
5.	6.	
\$9584.12		\$8539.82

7.	8.
\$461.00	\$139.00
\$401.00	\$139.00
0	10
9.	10.
\$201.91	\$1092.51
Ψ201.71	ψ10 <i>72.3</i> 1
11.	12.
11.	14.
\$3721.55	\$7108.95
Ψ0. Ξ1 100	Ψ. 100170

13.	14.
¢22.04	\$4936.00
\$33.04	\$4930.00
15.	16.
\$8255.07	\$64 903.93
Ψ0255.07	ψ01903.93
17.	18.
#0020.24	Ø10 2 04 99
\$9828.24	\$10 204.88

19.	20.
17.	20.
\$9.01	\$75.53
21.	22.
\$201.86	\$503.03
23.	24.
\$712.05	\$359.14
Ψ7.12.03	ψ557.11

Qu	antity	Item	Unit Price	Cost
			\$6.00	
				\$10.00
4	5kg			
Total				
				(3 marks
Answer	\$2.00			(1 mark)
Answer	\$52.45			(1 mark)
Answer	\$52.45			(1 mark)
	\$52.45 antity	Item	Unit Price	(1 mark) Cost
		Item	Unit Price	
Qu		Item	Unit Price	Cost
Qu	antity	Item	Unit Price	Cost
Qu	antity	Item	Unit Price	Cost

29.	a) Answer	\$30.12	(2 marks)
	b) Answer	\$69.88	(1 mark)
30.	Answer	\$73.25	(2 marks)
31.	a) Answer	\$63.00	(1 mark)
	b) Answer	\$37.00	(1 mark)

32.

Item	Quantity	Unit Price	Cost
Water			
Rice		\$27.50	
Flour	4.5 kg or $4\frac{1}{2}$ kg		

Subtotal	
Discount at 15%	\$29.40
Total	\$166.60

33.

Bills	\$100	\$50	\$20	\$10	\$5	\$1
Amount	0	0	1	1	1	4

(4 marks)

(4 marks)

Quantity	Item	Unit Price	Cost
	Pizza		
	Calzone		
	Pasta	\$56.75	
Subtotal	I		\$663.00
Discount at 14%			\$92.82
Total			\$570.18
			(4 n

35.	
a)	
Answer \$3.60	(1 mark)
b)	
i.	
Answer \$2.77	(1 mark)
ii.	
Answer \$11.08	(1 mark)

Topics covered: Discount and savings

Time: 25 minutes

Maximum Mark: 25 Your Mark: _____

	-	
1.	a) Answer \$41.25	(1 mark)
	b) Answer \$288.75	(1 mark)
2.	Answer \$2560	(2 marks)
3.	a) Answer \$126.90	(1 mark)
	b) Answer \$719.10	(1 mark)
4.	Answer \$527.00	(2 marks)
5.	Answer \$544	(1 mark)
6.	Answer \$20.00	(1 mark)
7.	Answer \$50.00	(1 mark)

0		
8.	Answer \$4802.44	(1 mark)
9.	Answer \$32.00	(1 mark)
10.	Answer \$531.25	(2 marks)
11.	Answer \$175	(2 marks)
12.	Answer \$487.50	(2 marks)
13.	Answer \$357.00	(2 marks)
14.	a) Answer \$2760	(1 mark)
	b) Answer \$6440	(1 mark)
15.	Answer \$5460	(2 marks)

Topics covered: Profit and loss, best buy

Time: 30 minutes

Maximum Mark: 40 Your Mark: _____

1.	Answer \$853	(1 mark)
2.	Answer \$1250.00	(2 marks)
3.	Answer \$4.81	(1 mark)
4.	Answer \$11.00	(2 marks)
5.	Answer \$1575	(3 marks)
6.	Answer \$43	(3 marks)
7.	Answer \$24.80	(2 marks)
8.	Answer \$7.25	(3 marks)
9.	Answer \$245	(3 marks)

10.	a)	
	Answer \$5249.30	(1 mark)
	b)	
	Answer \$4129.30	(1 mark)
11.		
	Answer \$1325.25	(3 marks)
12.		(2 1)
	Answer Bag A	(2 marks)
13.		
	Answer From my calculations, Vendor B is selling tomatoes cheaper and	
	therefore, Elizabeth should purchase tomatoes from Vendor B. I arrived	
	at this conclusion by calculating the cost of 1kg of tomatoes from each	
	vendor. The result of this was compared to determine the lower cost. The	
	lower the cost implies the cheaper the tomatoes per kilogram.	(2 mayba)
		(3 marks)
14.		
	Answer Kalain purchased potatoes at a more expensive rate. I arrived at	
	this answer by calculating the amount Kalain and Dylan will pay if they	
	each purchased 14kg of potatoes. From the information given, I know	
	Dylan will pay \$46.00. However, if Kalain paid \$25.00 for 7kg then he	
	will pay \$50 for 14kg. Thus, Kalain purchased the potatoes at a more	(3 marks)

	expensive rate as he will pay \$4.00 more than Dylan if they both	
	purchased 14kg of potatoes.	
15.		
13.	Answer Option 2	(2 marks)
16.	Answer Supplier 1	(2 marks)

Topics covered: Metric system- length and mass	Time: 25 minutes
Maximum Mark: 44	Your Mark:

1. a)	2km
b)	5500mm
c)	7500 <i>m</i>
d)	2300m
e)	0.792kg
f)	300 <i>cm</i>
g)	147 <i>cm</i>
h)	1.038 kg
i)	63 <i>cm</i>
j)	13.45km
k)	35mm
1)	382 000 <i>g</i>
m)	6590 <i>m</i>

	n) 8.3 <i>cm</i>		
	o) 0.6897 km		
	p) 4820 <i>g</i>	(16 marks)	
2.	a)		
	Answer 3.5m		(1 mark)
	b)		
	Answer 8.75 <i>m</i>		(2 marks)
3.	a)		
	Answer 15.35 <i>m</i>		(1 mark)
	b) Answer 1535 <i>cm</i>		(1 mark)
4.	Answer 1174cm		(3 marks)
5.	Answer 13.78 <i>m</i>		(2 marks)
6.	Answer 54cm		(2 marks)
7.	a) Answer 2.3cm		(1 mark)

	1.)	
	b) Answer 2cm	(1 mark)
8.	a) Answer 22.79m	(2 marks)
	b) Answer 2279 <i>cm</i>	(1 mark)
9.	Answer 0.025 <i>m</i>	(1 mark)
10.	Answer 3cm	(1 mark)
11.	Answer 25 packets	(1 mark)
12.	Answer From the information given, 9 pears are on one side of a scale and 3 pears and a pineapple are on the other side. The scale is balanced. Therefore, the number of pears whose mass is equivalent to that of 1 pineapple can be found by subtracting the 3 pears from Side B from the number of pears from Side A to remain with 1 pineapple, 9 – 3 = 6 pears. This is correct because if I remove the same number of pears from each side (3 pears) the scale will still be balanced and will be left with 6 pears on Side A and a pineapple on Side B. Thus, the mass of 1 pineapple is equivalent to the mass of 6 pears.	
		(2 marks)

	b) Answer 2.61kg or 2610g	(2 marks)
13.	Answer 0.06kg or 60g	(2 marks)
14.	a) Answer 13.59kg	(1 mark)
	b) Answer 1410 <i>g</i>	(1 mark)

Topics covered: Time Time: 35 minutes

Maximum Mark: 52 Your Mark: _____

1.		
a)		
Answer $1\frac{1}{10}$ hor	urs	(1 mark)
b)		
Answer $2\frac{1}{2}$ or 2.	5 hours	(1 mark)
c)		
Answer $3\frac{3}{4}$ or 3.	75 hours	(1 mark)
d)		
Answer $5\frac{3}{5}$ or 5.	6 hours	(1 mark)
e)		
Answer $7\frac{2}{5}$ or 7.	4 hours	(1 mark)
f)		
Answer $5\frac{2}{3}$ how	rs	(1 mark)
g)		
Answer $8\frac{1}{3}houn$	S	(1 mark)
2. a)		
Answer 120 min	nutes	(1 mark)

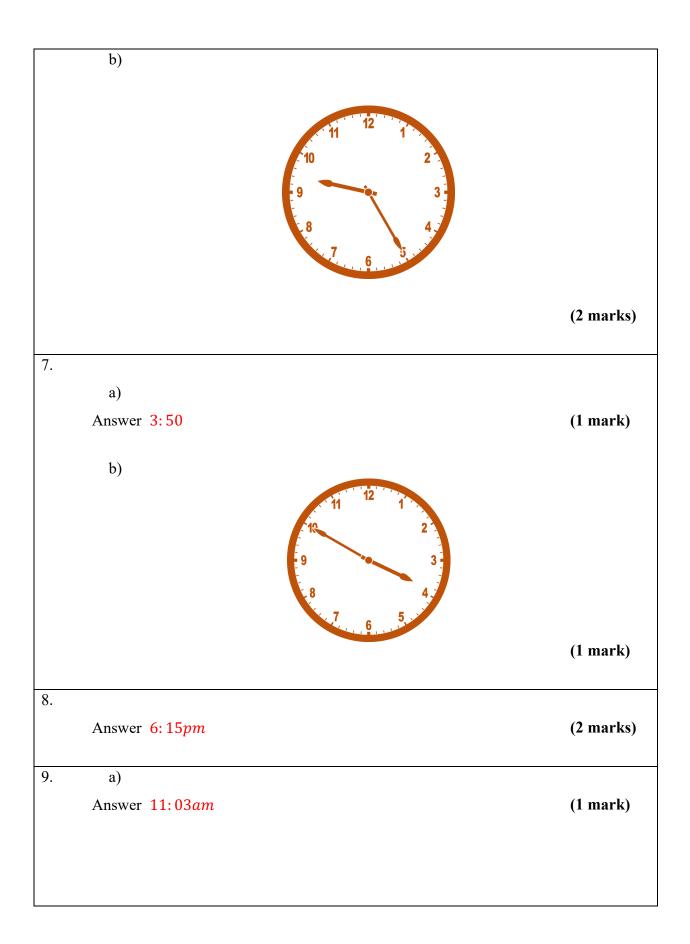
b)	
Answer 210 minutes	(1 mark)
c)	
Answer 345 minutes	(1 mark)
d)	
Answer 552 minutes	(1 mark)
e)	
Answer 460 minutes	(1 mark)
f)	
Answer 405 minutes	(1 mark)
g)	
Answer 267 minutes	(1 mark)

3. STUDENT MUST STATE AM OR PM.

Standard Digital Time	Analogue Time	Analogue Time in Words
	11 12 1 10 2 3 19 3 3	Half past twelve o'clock in the morning
	9 3 3 4 3	Quarter past one o'clock in the afternoon
2: 40 <i>pm</i>		Twenty minutes to three o'clock in the afternoon
12: 10am		Ten minutes past twelve o'clock in the morning
5: 25 <i>pm</i>	9 3	
9: 50 <i>am</i>	9 3.	(12marks)

(12marks)

ļ.	a)	
	Answer 5: 20 <i>pm</i>	(1 mark)
	b)	
	Answer 3: 05 <i>pm</i>	(1 mark)
	c)	
	9 9 8 7 6 5	
		(1 mark)
	a) Answer 8: 03am	(1 mark)
	1.\	
	b) Answer 27 minutes	(1 mark)
	This wor 27 mentatos	(1)
	c)	
	Answer 3: 05 <i>pm</i>	(1 mark)
	a)	
	Answer 108 pages	(1 mark)



b)	
Answer 2 hours 33 minutes	(1 mark)
c)	
Answer 4: 09 <i>pm</i>	(1 mark)
11:40	3 -
	(2 marks
a)	
Answer Thursday	(1 mark)
b)	
Answer Monday	(1 mark)
c)	
Answer Saturday	(1 mark)
d)	
Answer Friday 24 th April, 2020.	(1 mark)

a)	
Answer 14:38	(1 mark)
b)	
Answer I believe Toronto is the furthest from the airport of departure	
because the flight takes 5 hours and 43 minutes to arrive which is longer	
than the time taken to arrive at New Your or Fort Lauderdale which is 4	
hours and 48 minutes and 3 hours and 51 minutes respectively.	
	(3 marks)

Topics covered: Area and perimeter Time: 60 minutes

Maximum Mark: 82 Your Mark: _____

1. a)		
Answ	er P = 42m	(2 marks)
b)		
Answ	rer P = 60m	(2 marks)
c)		
Answ	er P = 152m	(2 marks)
d)		
Answ	rer P = 81.4cm	(2 marks)
e)		
Answ	ver P = 254.6cm	(2 marks)
f)		
Answ	P = 233.8cm	(2 marks)
g)		
Answ	P = 108cm	(2 marks)
h)		
Answ	P = 76m	(2 marks)

i)		
Answer $P =$	= 140 <i>m</i>	(2 marks)
j)		
Answer $P =$	=40m	(2 marks)
k)		
Answer $P =$	= 92 <i>cm</i>	(2 marks)
1)		
Answer $P =$	= 168 <i>cm</i>	(2 marks)
2. a)		
Answer 6.5	m	(1 mark)
b)		
Answer 170	cm	(1 mark)
c)		
Answer 17.	25 <i>m</i>	(2 marks)
3.		
Answer Fro	om the calculations above, it was found that the perimeter of	
the rug and	the perimeter of the room are 40m and 77m respectively.	
Therefore, the	he perimeter of the room is larger than the perimeter of the	
rug.		
		(3 marks)

4.	a)	
	Answer 76m	(2 marks)
	b)	
	Answer 60m	(1 mark)
	c)	
	Answer Josh and Jesarah each covered a distance of 76m and 60m	
	respectively. It is clear that Josh covered a greater distance than Jesarah	
	did.	
		(1 mark)
5.		
	Answer 24m	(3 marks)
6.		
	Answer The perimeter of A and the perimeter of B is 73m and 72m	
	respectively. Therefore, the perimeter of A is larger by 1m than the	
	perimeter of B.	
		(4 marks)
7.		
	Answer From the calculations above the perimeter of A, B and of the	
	land is 3.3m, 2m and 11m. Therefore, the perimeter of A is larger than	
	the perimeter of B but the perimeter of the land is larger than both the	
	perimeter of A and of B.	
		(4 marks)

8.

Answer The perimeter refers to the distance around. Opposite sides in a rectangle are equal and thus a rectangle has 2 lengths and 2 widths. The perimeter can be found by P = L + L + B + B which can be reduced to $P = (L + B) \times 2$.

Hence, the perimeter of a rectangle can be found by the product of the sum of the length and breadth by 2.

(3 marks)

9.

Answer The area of a polygon is the number of square units inside the polygon. Unlike perimeter, area is two-dimensional and is found by the product of the length and the width. Since a square has four equal sides, the area is found by multiplying the side by itself as shown above.

(3 marks)

10.

Answer The perimeter refers to the distance around. Since a square has four equal sides, the perimeter will be P = S + S + S + S which can be reduced to $P = S \times 4$. Therefore, the perimeter of a square can be found by multiplying a known side by four.

(3 marks)

11.		
	Answer The area of a polygon is the number of square units inside the	
	polygon. Unlike perimeter, area is two-dimensional. The area is therefore	
	found by the product of the length and width/breadth as shown above.	
		(3 marks)
12.		
	a)	
	Answer 200cm	(1 mark)
	b)	
	Answer 2m	(1 mark)
	c)	
	Answer The perimeter of A is equal to the perimeter of B. This is so	
	because both squares are of the same dimensions, because 50cm is	
	equivalent to 0.5m, the dimensions are just in different units. Therefore,	
	the perimeter of A is equivalent to the perimeter of B. Thus, 200cm is	
	equivalent to $2m$.	
	equivalent to 2m.	(2 marks)
		(2 marks)
13.		
13.	Answer 55.5 <i>cm</i> ²	(3 marks)

14.	Answer 26cm ²	(3 marks)
15.		
	Answer 17 cm ²	(2 marks)
16.		
	Answer $8 cm^2$	(2 marks)
17.		
	Answer The perimeter of the square is $60m$ which is greater than the	
	perimeter of the rectangle which is $24m$ Therefore, with respect to area,	(3 marks)
	the square is larger than the rectangle.	,
18.		
	Answer 57.5 cm ²	(4 marks)
19.		
	Answer: A square of side 6 units	(3 marks)

Topics covered: Capacity and volume Time: 40 minutes

Maximum Mark: 50 Your Mark: _____

1.	
a) 2 <i>L</i>	
b) 550 <i>ml</i>	
c) 7500ml	
d) 2300cm ³	
e) 0.792 <i>L</i>	
f) 3cm ³	(6 mayles)
	(6 marks)
2. Answer 29 times	(2 marks)
3.	(2
Answer 28 cubes 4.	(3 marks)
Answer 132 cubes	(3 marks)
5. Answer 360 cm ³	(4 marks)
6.	
Answer 6 litres	(4 marks)

7.		
	Answer 129.6 kilograms	(4 marks)
8.		
	a)	
	A #220	(2 1)
	Answer \$330	(3 marks)
	b)	
	Answer 18 kg	(1 mark)
9.		
	a)	
	Answer $1512 cm^2$	(2 marks)
	b)	
	Answer \$9072	(2 marks)
10.		
	a)	
	Answer 15cm ³	(2 marks)
	1)	
	b)	
	Answer 288cm ³	(2 marks)
11.		
	Answer $25 cm^3$	(4 marks)
	This wor 25 one	(+ marks)

Time: 35 minutes

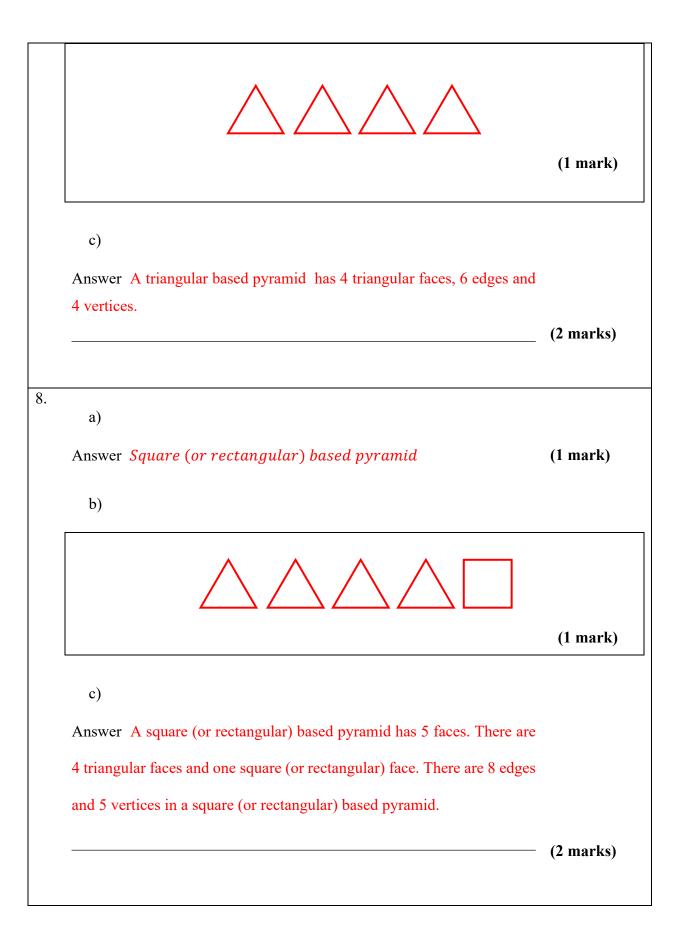
Topics covered: Solids

ximum Mark: 32	Your Mark:
a)	
Answer Cube	(1 mark)
b)	
	(1 mark)
c)	
-)	
	Il are of the same dimensions.
Answer A cube has 6 square faces which a	
	2 .
Answer A cube has 6 square faces which a	
Answer A cube has 6 square faces which a	2 .
Answer A cube has 6 square faces which a	2 .
Answer A cube has 6 square faces which a There are 8 vertices and 12 edges in a cube	2 .
Answer A cube has 6 square faces which a There are 8 vertices and 12 edges in a cube a) Answer Cuboid	(2 marks)
Answer A cube has 6 square faces which a There are 8 vertices and 12 edges in a cube a)	(2 marks)
Answer A cube has 6 square faces which a There are 8 vertices and 12 edges in a cube a) Answer Cuboid	(2 marks)

	c)	
	Answer A cuboid has 6 faces. There are 2 equal square (or rectangular)	
	faces and 4 equal rectangular (or square) faces. There are 8 vertices and	
	12 edges in a cuboid.	
		(2 marks)
3.	a)	
	Answer <i>Cylinder</i>	(1 mark)
	b)	
		(1 mark)
	c)	
	Answer A cylinder has 3 faces. There are 2 equal circular faces of equal	
	dimensions and 1 curved rectangular (or in some cases, square) face.	
	There are 0 vertices and 2 edges in a cylinder.	
		(2 marks)
		(2 marks)

4.	a)	
	Answer Sphere	(1 mark)
	b)	
	One circle to represent the circular face of a sphere.	(1 mark)
	c) Answer A sphere has 1 curved face, 0 edges and 0 vertices.	(2 marks)
5.	a) Answer <i>Cone</i>	(1 mark)
	b)	
		(1 mark)

	c)	
	Answer A cone has 2 faces, 1 circular and another that is irregularly	
	shaped. There is 1 edge and 1 vertex in a cone.	
		(2
		(2 marks)
6.		
0.	a)	
	Answer Triangular prism	(1 mark)
	b)	
		(1 mark)
	c)	
	Answer A triangular prism has 5 faces. There are 3 rectangular (or square) faces of equal dimensions and 2 triangular faces of equal	
	dimensions. There are 9 edges and 6 vertices in a triangular prism.	(2 marks)
7.		
	a)	
	Answer Triangular based pyramid (or tetrahedron)	(1 mark)
	b)	



Time: 35 minutes

Topics covered: Cross-Sections

	Mark: 45 Your	Mark:
Ans	swer The solid drawn is a cube and has a uniform cross-section. The	
cros	ss-section of a solid refers to the shape seen when it is cut. Uniform	
cros	ss-section implies that the cross-section is the same when it is cut. If	
the	solid is cut vertically at different points a square cross section of	
equa	al dimensions will be seen. Similarly, if it is cut horizontally at	
diff	erent points a square cross section of equal dimensions will be seen.	
		(3 marks)
Ans	swer The solid drawn is a cuboid and has a uniform cross-section.	
The	cross-section of a solid refers to the shape seen when it is cut.	
Uni	form cross-section implies that the cross-section is the same when it	
is cu	ut. If the solid is cut vertically at different points a square cross section	
	at. If the solid is cut vertically at different points a square cross section equal dimensions will be seen. Similarly, if it is cut horizontally at	
of e		
of e	equal dimensions will be seen. Similarly, if it is cut horizontally at erent points a rectangular cross section of equal dimensions will be	

3.

Answer The solid drawn is a cylinder and has a uniform cross-section. The cross-section of a solid refers to the shape seen when it is cut. Uniform cross-section implies that the cross-section is the same when it is cut. If the cylinder is cut horizontally at different intervals throughout its length, a circular cross-section of the same dimensions will be seen. Therefore, the cylinder has a uniform cross-section.

— (3 marks)

4.

Answer The solid drawn is a cone and does not have a uniform cross-section. The cross-section of a solid refers to the shape seen when it is cut. Uniform cross-section implies that the cross-section is the same when it is cut. If the cone is cut horizontally at different intervals, a circular cross-section will be seen, however, of different sizes. If the cone is cut vertically at different intervals, a triangular cross-section will be seen, however, of different sizes.

(3 marks)

5.

Answer The solid shown is a triangular prism. From theory it is known that all prisms have a uniform cross-section. The cross-section of a solid refers to the shape seen when it is cut. Uniform cross-section implies that

(3 marks)

the cross-section is the same throughout the shape. If the triangular prism is cut vertically at different intervals throughout its length, a triangular cross-section of the same dimension will be seen. Therefore, the triangular prism has a uniform cross-section.

6.

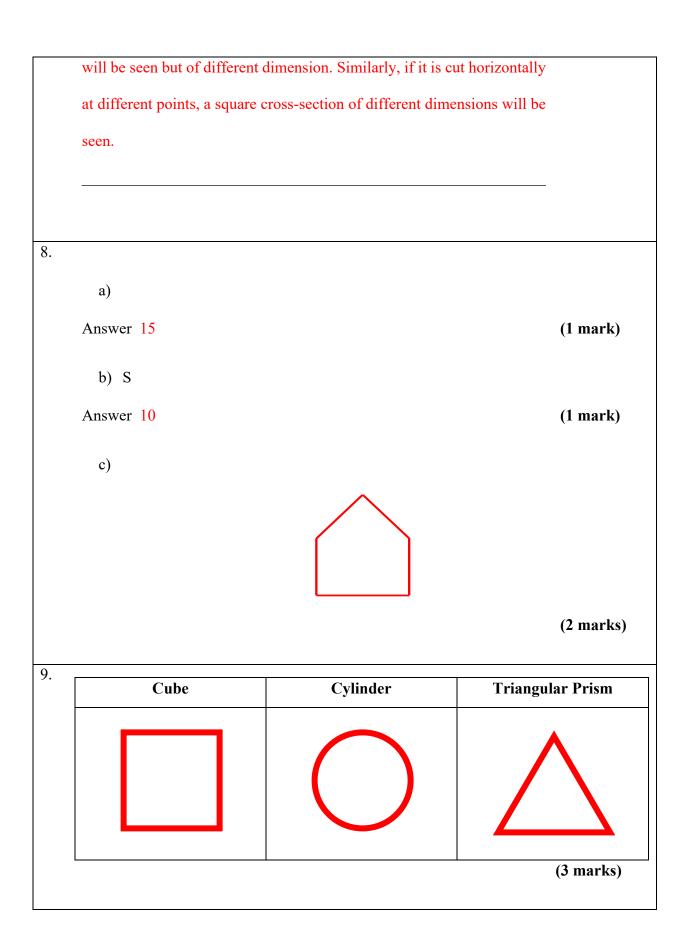
Answer The solid drawn is a triangular based pyramid and does not have a uniform cross-section. The cross-section of a solid refers to the shape seen when it is cut. Uniform cross-section implies that the cross-section is the same when it is cut. The solid does not have a uniform-cross section because if it is cut vertically at different points a trapezium cross section (except when cut in the middle) will be seen but of different dimension. Similarly, if it is cut horizontally at different points, a triangular cross-section of different dimensions will be seen.

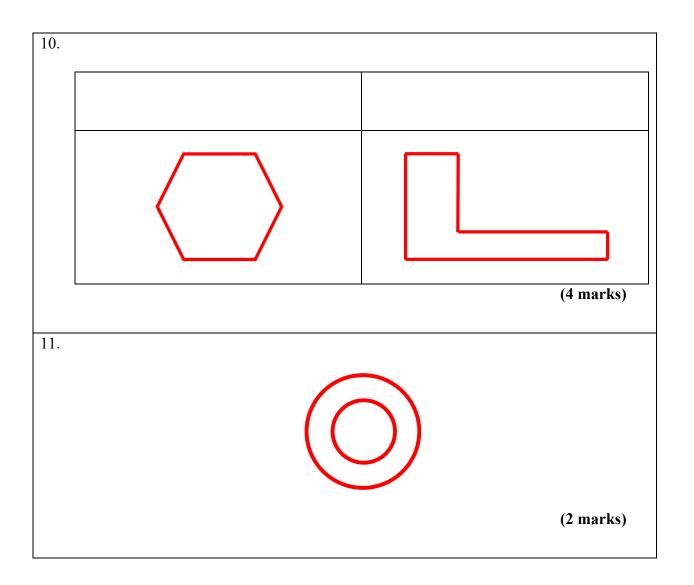
(3 marks)

7.

Answer The solid drawn is a square based pyramid and does not have a uniform cross-section. The cross-section of a solid refers to the shape seen when it is cut. Uniform cross-section implies that the cross-section is the same when it is cut. The solid does not have a uniform-cross section because if it is cut vertically at different points, a triangular cross section

(3 marks)

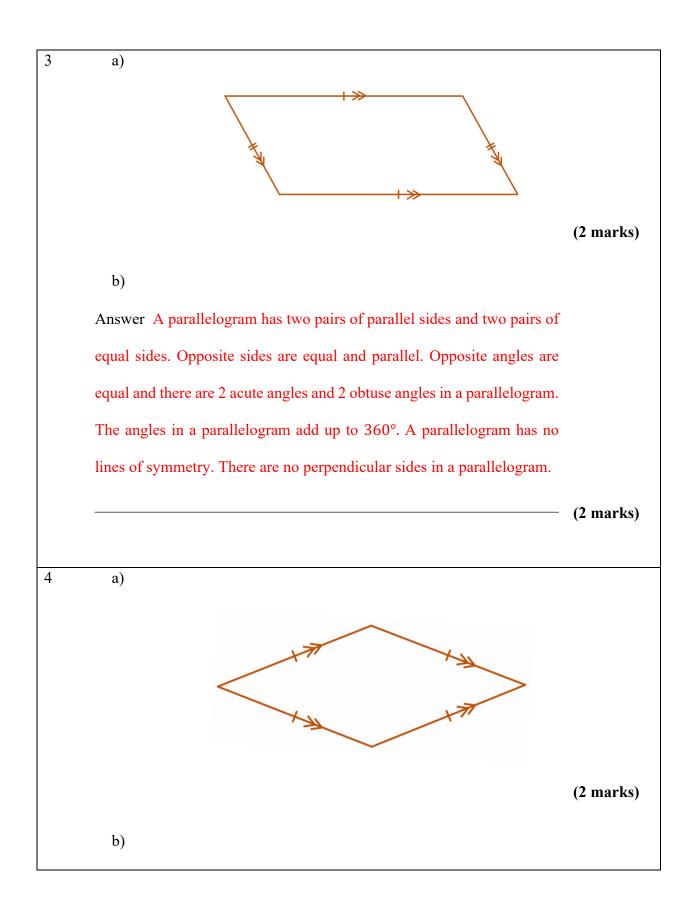




Topics covered: Plane shapes

Time: 35 minutes

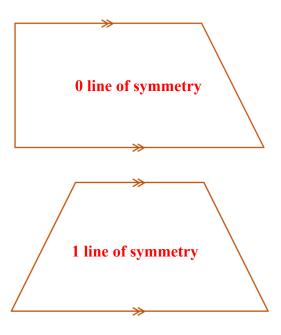
mum Mark: 60 Your M		Your Mark:
a)	***	
		(2 marks)
b)		
parallel sides,	uare has 4 equal sides, 4 equal angles of 9	
Opposite sides	s in a square are equal and parallel.	
		(2 marks
a)		(2 marks
a)	+ *** *********************************	(2 marks
a)	† ** * * * * * * * * * * * *	
a) b)	*	
b)	ectangle has 2 pairs of equal sides, 4 equa	(2 marks
b) Answer A re	ectangle has 2 pairs of equal sides, 4 equal sides, 4 pairs of perpendicular side	(2 marks
b) Answer A re two pairs of pa		(2 marks al angles of 90°, es and 2 lines of



Answer A rhombus has 4 equal sides. Opposite sides in a rhombus are parallel. The angles in a rhombus add up to 360°. Opposite angles in a rhombus are equal and there are 2 acute angles and 2 obtuse angles. A rhombus has 2 lines of symmetry and no perpendicular sides.

(2 marks)

5. a)



(2 marks)

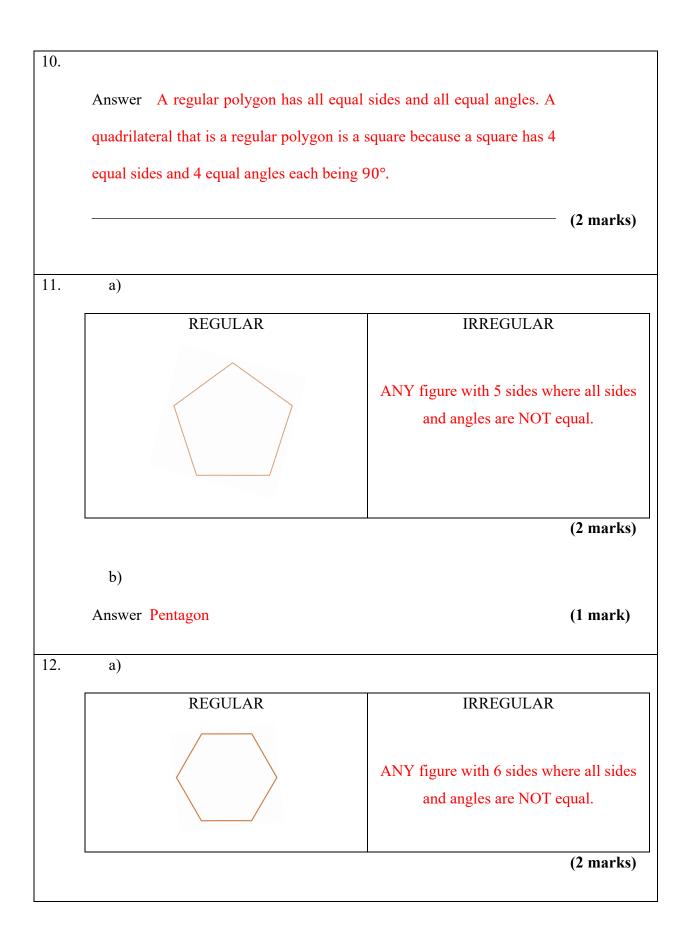
b)

Answer A trapezium is mainly characterized by having one pair of opposite sides that are parallel. The angles in a trapezium add up to 360° and there is at least one acute angle in the shape.

(2 marks)

Answer The triangle is an equilateral triangle. Two properties of this	
triangle are all sides and angles are equal and the shape has 3 lines of	
symmetry.	
	(2 ma
b)	
Answer This triangle is a regular polygon because a regular polygon has	
all equal sides and all equal angles and the triangle shown has all equal	
sides and angles.	
	(2 ma
	(2 1112
a)	
Answer The triangle shown is a scalene triangle and has 3 unequal sides	
and 3 unequal angles. The shape also has no lines of symmetry.	
	(2 ma
b)	
b) Answer This triangle is an irregular polygon because an irregular	
Answer This triangle is an irregular polygon because an irregular	

Answer The triangle shown is a right-angle triangle and has at least 2	
unequal sides and 3 unequal angles. The shape also has a right angle and	
no lines of symmetry.	
	(2 ma
b)	
Answer This triangle is an irregular polygon because an irregular	
polygon does not have all equal sides and all equal angles and the triangle	
shown does not have all equal sides and angles.	
	(2 ma
a)	
Answer The triangle shown is an isosceles triangle and has two equal	
sides and two equal angles. The shape also has 1 line of symmetry.	
	(2 ma
b)	
Answer This triangle is an irregular polygon because an irregular	
polygon does not have all equal sides and all equal angles and the triangle	
shown does not have all equal sides and angles.	
	(2 ma



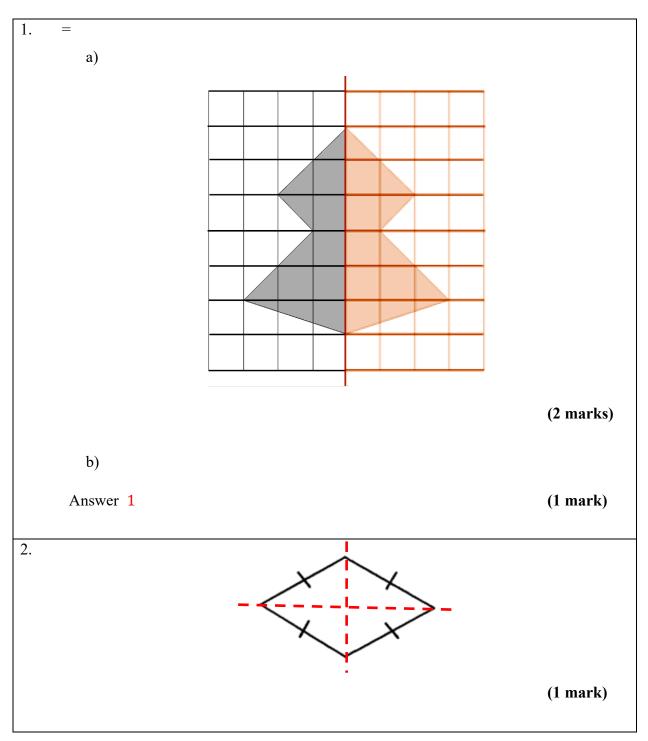
	c)	
	Answer Hexagon	(1 mark)
13.	a)	
	REGULAR	IRREGULAR
		ANY figure with 8 sides where all sides and angles are NOT equal.
		(2 marks)
	b)	
	Answer Octagon	(1 mark)
14.		
	a)	
	Answer B and E	(1 mark)
	b)	
	Answer B, D, E (NOTE: Shape C is sim	ilar not different or the same) (1 mark)
	c)	
	Answer The two triangles which are s	imilar are triangles A and C.
	Triangle A has 2 60° which means the th	ird angle is also 60° since the
	angles in a triangle add up to 180°, which	h means each side is 9.3cm as
	all sides will be equal. In Triangle C each	side is 27.9cm which is 3 times (2 marks)

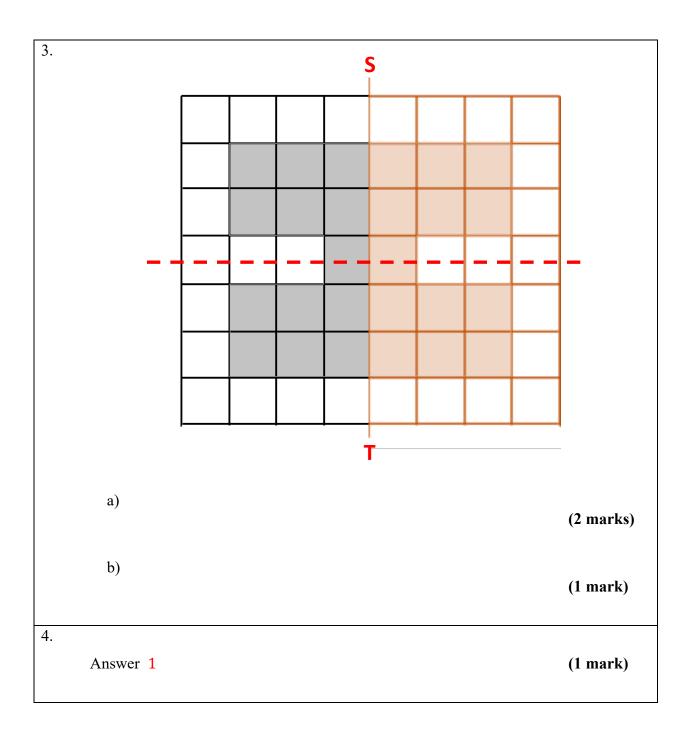
more than 9.3cm and each angle will therefore be 60°. Thus, triangles A and C are similar as both are equilateral but C is 3 times larger than A. 15. Answer Both the square and rectangle are quadrilaterals. In both shapes opposite sides are equal and parallel as well as the angles in each shape are equal and are all right angles. In a square, all sides are equal, however, in a rectangle there are 2 pairs of equal sides, each pair being of different lengths. Additionally, a square has 4 lines of symmetry and a rectangle has 2 lines of symmetry. (3 marks) 16. Answer Both the square and rhombus are quadrilaterals. In both shapes opposite sides are equal and parallel. All the sides in a square and rhombus are equal. A square has all equal angles which are right angles, however, this is not necessarily the same in a rhombus. However, opposite angles in a rhombus are equal. Additionally, a square has 4 lines of symmetry and a rhombus has 2 lines of symmetry. (3 marks) 17.

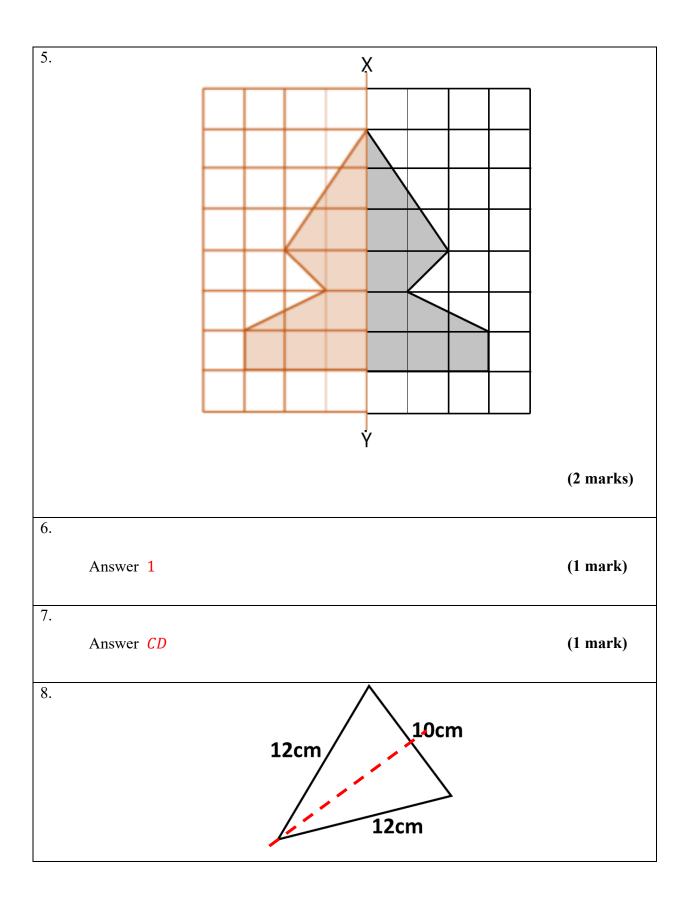
	(3 marks)
trapezium has 1 pair of parallel sides.	
case in a trapezium. A parallelogram has 2 pairs of parallel sides while a	
parallelogram opposite sides and angles are equal, however this is not the	
Answer Both the parallelogram and trapezium are quadrilaterals. In a	

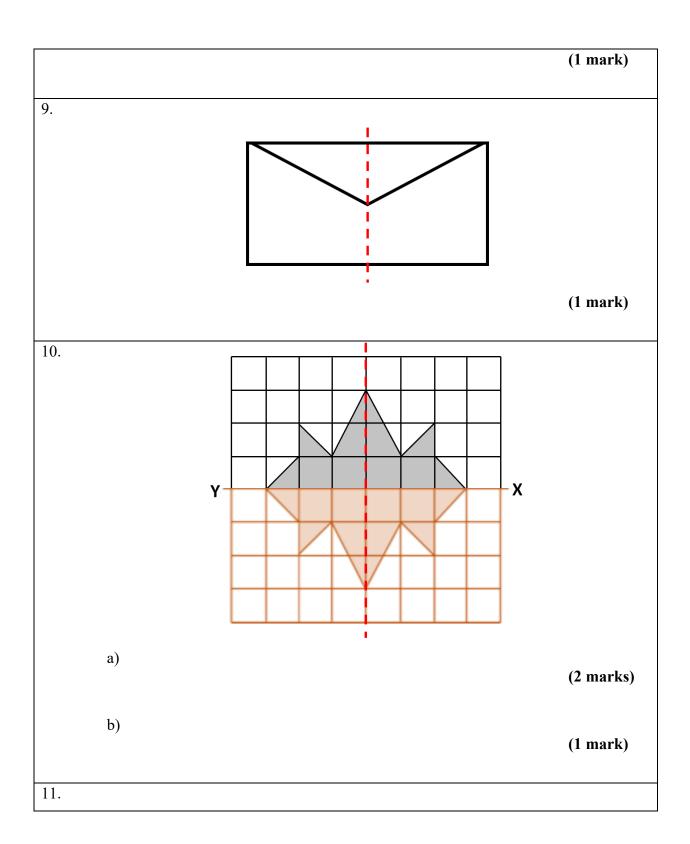
Topics covered: Symmetry	Time: 25 minutes
Topics covered: Symmetry	Time: 25 minute

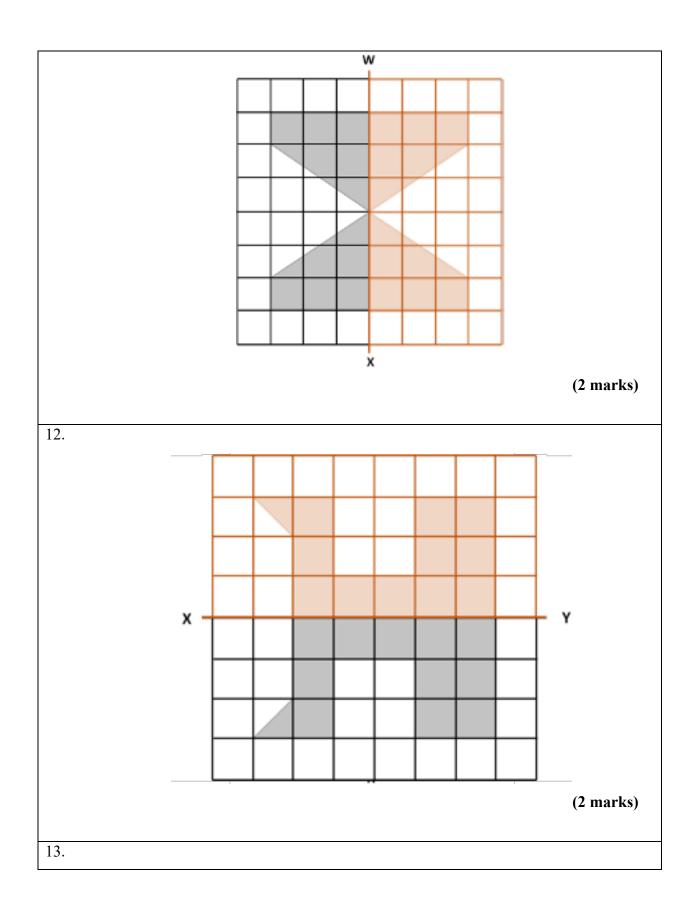
Maximum Mark: 44 Your Mark: ____

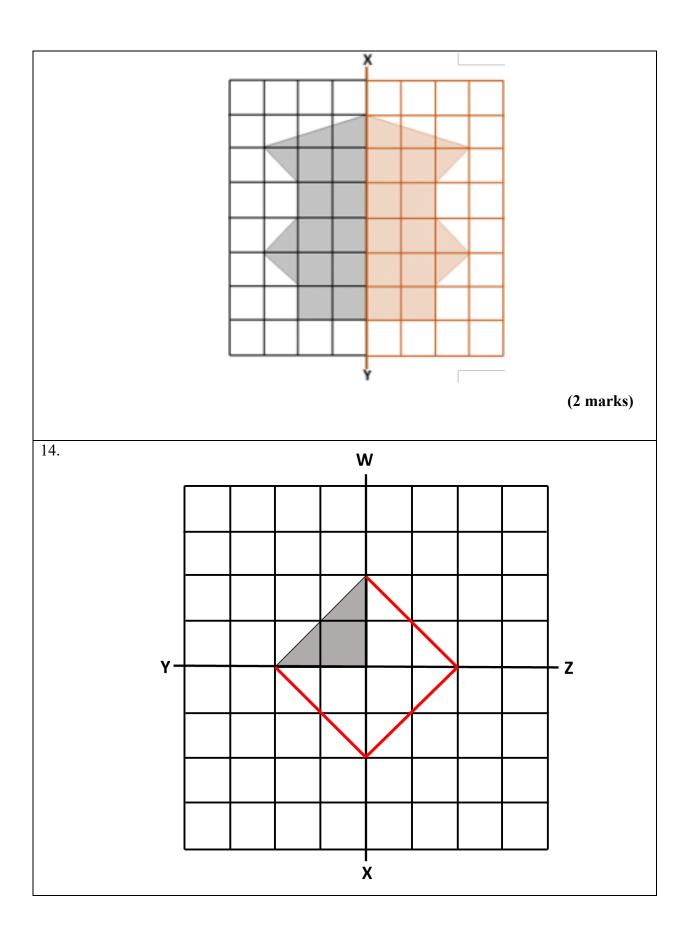












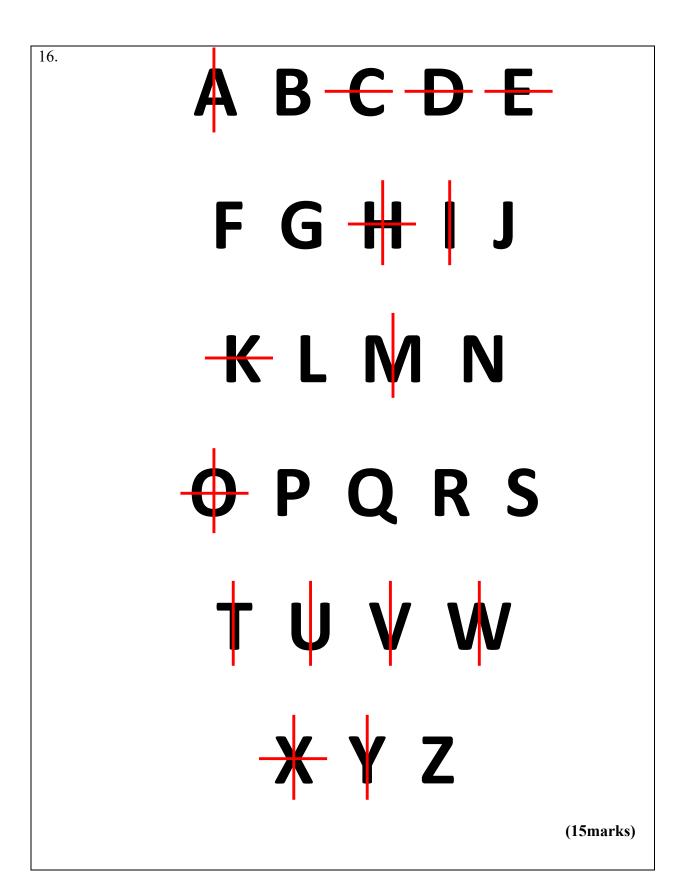
a)
Answer Right angle triangle
(1 mark)
b)
(2 marks)

15.

15.

15.

(3 marks)

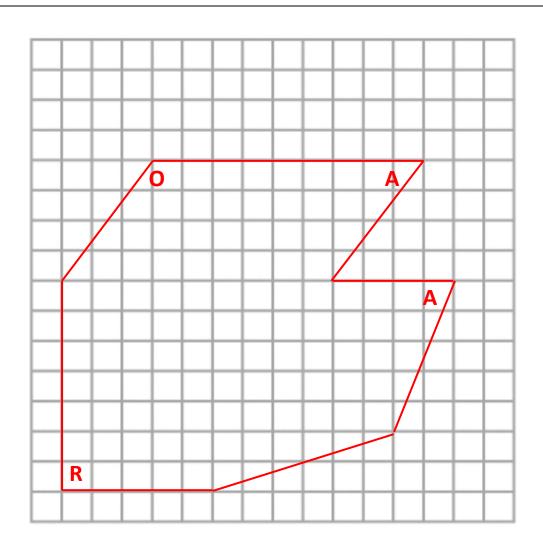


Topics covered: Angles Ti		Time: 45 minutes
Maxii	mum Mark: 80	Your Mark:
1.	Answer B	(1 mark)
2.		
	a)	
	Answer A or C	(1 mark)
	b)	
	Answer B	(1 mark)
	c)	
	Answer D	(1 mark)
3.	The angle q above is larger than a right ar	ngle. (1 mark)
4.	Angle B is smaller than Angle C.	
		(1 mark)
5.		
	Answer 13	(2 marks)
6.	a)	
	Answer South	(2 marks)

b)

	Answer East	(2 marks)
7.		
	A 3	(2 marks)
	Answer $\frac{3}{4}$	(2 marks)
8.		
	Answer $\frac{1}{4}turn$	(1 mark)
9.		
	Answer $\frac{1}{4}turn$	(2 marks)
10.		
	a)	
	Answer 4	(1 mark)
	b)	
	Answer 0	(1 mark)
	c)	
	Answer 0	(1 mark)
11.		
	a)	
	Answer smaller than	(1 mark)
	b)	
	Answer equal	(1 mark)
	c)	
	Answer smaller than	(1 mark)
12.		

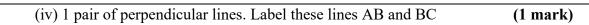
	Answer 24 right angles	(2 marks)
13.	a) Answer equal	(1 mark)
	b) Answer smaller than	(1 mark)
	c) Answer equal	(1 mark)
14.	a) Answer smaller than b) Answer smaller than	(1 mark)
	c) Answer larger than	(1 mark)
15.	(i) An irregular polygon with 8 sides.	(1 mark)
	(ii) Has at least 2 angles smaller than a right angle. Label each angle 'A'	(1 mark)
	(iii) Has at least 1 angle larger than a right angle. Label each angle 'O'	(1 mark)
	(iv) Has at least 1 right angle. Label each anngle 'R'	(1 mark)

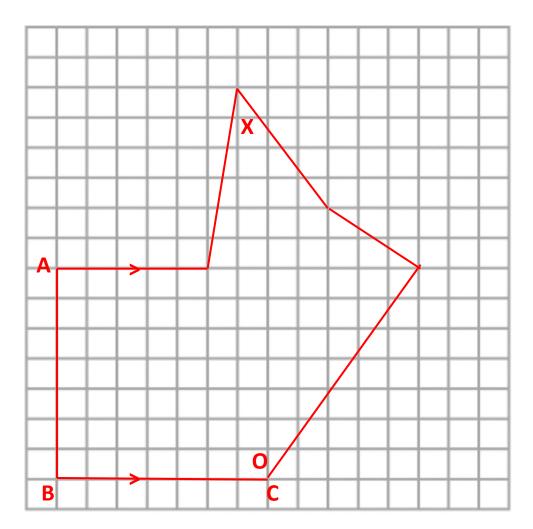


The above is only 1 possible answer. There are many varying possibilities of correct answers.

16.

- (i) 1 pair of parallel sides. Indicate the lines with the appropriate symbol. (1 mark)
- (ii) Has an angle smaller than a right angle. Label this angle 'X' (1 mark)
- (iii) Has an angle greater than a right angle. Label this angle 'O' (1 mark)





The above is only 1 possible answer. There are many varying possibilities of correct answers.

17.

Movement	Minute Hand	Hour Hand
	5	8
		11
	11	

(4 marks)

Topics covered: Geometric patterns

Time: 30 minutes

Maximum Mark: 42 Your Mark: ____

				——— (2 mai
b)				
		1		
			7 [_
	Ą	Ļ	ш	
	4			
	7			(2 mai
	7	<u></u>		(2 mai

Term	1	2	3	4	5	6	7	8	9	10	
Dots	3	6	10	15	21	28	36	45	55	66	
	+3	+4	+5	+6	+7	+8	+9	+10	+11		
Answe	r 66									(1 ma	rk)
c)											
Answe	r The p	attern is	increa	sing bed	cause th	e first b	ox has	3 dots a	and the		
dots in	each bo	x after i	ncrease	ed by an	increas	ing am	ount. (T	hese nu	mbers		
are als											
are ars	o consi	dered tr	iangle 1	numbers	s and is	an acc	eptable	respon	se.)		
	o consu	dered tr	iangle 1	number	s and is	an acc	eptable	respon	se.)	(1 ma	rk)
	o consu	dered tr	iangle 1	number	s and is	an acc	eptable	respon	se.)	(1 ma	rk)
									se.)	(1 ma	rk)
									se.)	(1 ma	rk)
Observe									se.)	(1 ma	
Observe									se.)	_	
Observe a) b)	the pat		ow and	answer	the que	estions	that fol	low.		_	
a) b) Answe	the pat	etern bel	ow and	answer	the que	estions rst term	that fol	low.		_	
a) b) Answe	the pat	etern bel	ow and	answer	the que	estions rst term	that fol	low.		_	rks)

4.

a)

(2 marks)

b)

The number of dots in each term is equal to the square of the term.

$$10th\ term = 10^2 = 10 \times 10 = 100$$

Answer 100 (1 mark)

c)

Answer The pattern is an increasing pattern because the number of dots in each term is equal to the square of the term. Therefore, as the terms increase, the square of the terms will also increase and thus the number of dots in each consecutive term will increase.

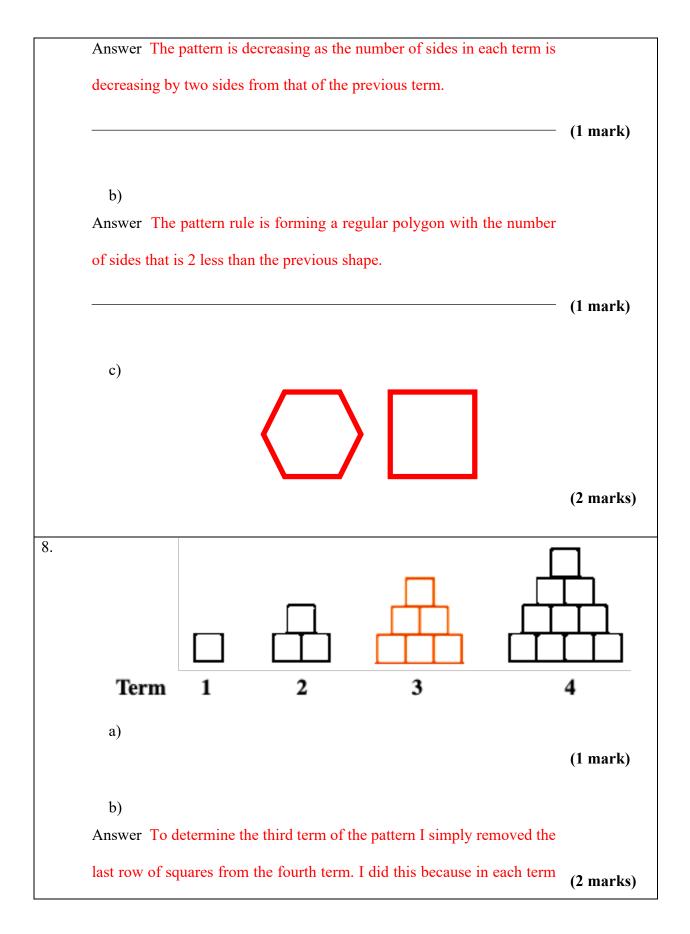
(1 mark)

5.

Answer Rendell's answer is not correct as the terms are not constantly repeated. From the pattern it can be seen that there are two rectangles followed by a trapezium in the first term, which is repeated as the second and fourth term. However, in the third term there are three rectangles before the trapezium opposed to two rectangles which obstructs the

(3 marks)

repeating pattern. Therefore, the pattern Rendell drew is not a repeating	
pattern.	
a)	
Answer The pattern drawn is an increasing pattern because the number	
of squares after each cube is increased by one from the previous term.	
	(1 mark
b)	
Answer The pattern rule is adding one more square after each cube to	
the number of squeres in the prayious term	
the number of squares in the previous term.	
OR: The pattern rule is a cube followed by squares which are equivalent to the	
term. For example, the fourth term will be a cube followed by four squares.	
	(1 mark
	(1 mark
c)	
	(2 mark
a)	
<i>uj</i>	



a new row of squares was added to the previous term with one square	
more to the row than the previous.	
c) Answer 21	(1 mark)
Allswei ZI	(1 mark)
a)	(2 marks)
b)	
Answer This pattern is a repeating pattern because in every term there	
are two squares followed by one triangle which is repeated three more	
times to complete the pattern which has 4 terms that represent the 12	
weeks of Renesh's attendance.	
	(2 marks)
	(= =====

	Term	Pattern	
	1		
	2	00	
	3	000	
	4	0000	
	5	0000	
	6	00000	
	7	000000	
	8	00	
K	EY:	= 2 cookies	(3 marks
b) Ansv	ver 60		(1 mark

11. a) Week Pattern 1 2 3 4 5 6 KEY: (3 marks) = 10 runs b) Answer Yes, Bradley did achieve his goal. Bradley crossed 50 runs on the sisth week, thus, exceeding the outcome he worked towards. (1 mark)

Revision Test 33

Time: 40 minutes

Topics covered: Representation and analysis of data

imum Mark: 44 Your	Mark:
Answer A frequency table shows the number of occurrences of variou	IS
outcomes from raw data. It is represented in rows and columns.	
Some advantages of Frequency Tables are:	
a) they are easy to read and identify the mode	
b) they are precise and show all data	
c) can represent a set of intervals.	
Some disadvantages are:	
a) can be tedious to organize data,	
b) difficult to see patterns and show proportions of categories.	
	– (4 marks)
Answer A tally chart is a table that represents the frequencies of variou	IS
outcomes by vertical and diagonal strokes.	
Some advantages of representing data in tally tables are:	(4 marks)

a) they are easy to read and identify the mode (easier than frequency table) b) they are precise and show all data c) can represent a set of intervals d) easier to see patterns compared to frequency tables e) easy to identify proportions. A disadvantage is that tally tables can be tedious to organize data (but less tedious than frequency tables). 3. Answer A bar chart displays data with rectangular bars equivalent to the values that they represent between a vertical and horizontal axis. Some advantages of representing data on a bar chart are: a) easy to compare between categories and identify patterns b) easy to interpret and analyze data using intervals. c) easy to identify the mode. Some disadvantages of representing data on a bar chart are: a) the total value represented by the chart is not known and must be

(4 marks)

calculated

b) may be difficult to interpret and interpretations can be subjective	
c) in depth analysis (fraction, percentages etc.) may require	
additional work (multi-step procedures)	
Answer A block chart represents data using blocks where each block	
represents a certain quantity.	
Toprosonia a cortain quantity.	
Some advantages of representing data on a block chart are:	
a) easy to compare between categories and identify proportions	
b) can represent a large amount of data easily	
c) easy to identify the mode and patterns	
d) simple to look at.	
Some disadvantages of representing data on a block chart are:	
a) the total value represented by the chart is not known and must be	
calculated	
b) may be difficult to interpret and interpretations can be subjective	
c) in depth analysis (fraction, percentages etc.) may require	
additional work (multi-step procedures)	
d) require a key to identify the quantity each block represents.	
, 1 yy quantity cust exceptions	
	(4 marks)

5. Answer A pictograph represents data using symbols that can be relevant to the data. Each symbol represents a certain quantity. Some advantages of representing data using a pictograph are: a) easy to compare between categories and identify proportions b) can represent a large amount of data easily c) easy to identify the mode and patterns d) simple to look at. Some disadvantages of representing data using a pictograph are: a) the total value represented by the chart is not known and must be calculated b) may be difficult to interpret and interpretations can be subjective in depth analysis (fraction, percentages etc.) may require additional work (multi-step procedures) d) require a key to identify the symbol and the quantity it represents e) difficult to determine values of partial icons (4 marks) 6. a)

Month	Frequency	Tally
Jan	6	JH 1
Feb	7	JH 11
Mar	10	##
Apr	7	## 11
May	8	##
Jun	4	

(2 marks)

b)

Answer I think it is more effective to represent the data using a bar chart as it is easier to look at and understand. The mode can also be easily identified. Bar graphs also allow for easier interpretations than tally charts, as proportions and patterns between categories are easier to identify.

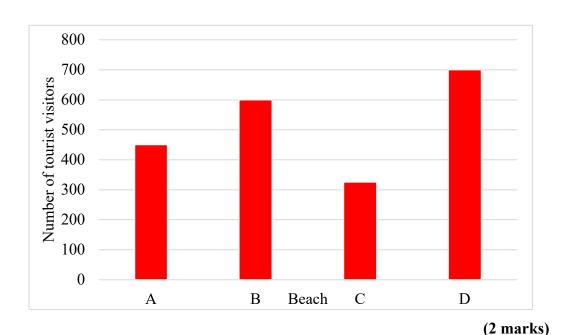
(2 marks)

Color	T	Freque	encv	Ta	ılly			
Red		-1040	6	111	ι, 			
Blue			4	111 111	<u> </u>			
Yellow			9		 			
Green			5		<u> </u> 			
				7111	•			(2 m
1.								
b)								
		\top						
		+	++					
			+					
							\vdash	
		Red	Blue	Yellow		Green		
		\mathbf{Z}	B	(ell		Gre		
]= 2 u		
				KEY	; <u>1</u>]= 2 u	nits	
								(2 1

b) Answer I think if a pictograph is used it will be more effective than a bar chart to show the data to Standard 3 students because the students may be more interested in a chart with symbols rather than bars and may be inclined to be more attentive.				
Sharon Shenelle Shenelle (2 mar) b) Answer I think if a pictograph is used it will be more effective than a bar chart to show the data to Standard 3 students because the students may be more interested in a chart with symbols rather than bars and may be inclined to be more attentive.		Safiyah	000	
Shenelle Shenelle (2 mark b) Answer I think if a pictograph is used it will be more effective than a bar chart to show the data to Standard 3 students because the students may be more interested in a chart with symbols rather than bars and may be inclined to be more attentive.		Shamila	00	
key: = 4 phone calls (2 mar) b) Answer I think if a pictograph is used it will be more effective than a bar chart to show the data to Standard 3 students because the students may be more interested in a chart with symbols rather than bars and may be inclined to be more attentive.		Sharon	0000	
b) Answer I think if a pictograph is used it will be more effective than a bar chart to show the data to Standard 3 students because the students may be more interested in a chart with symbols rather than bars and may be inclined to be more attentive.		Shenelle	000	
Answer I think if a pictograph is used it will be more effective than a bar chart to show the data to Standard 3 students because the students may be more interested in a chart with symbols rather than bars and may be inclined to be more attentive.	KEY:	= 4 phone	calls	
Answer I think if a pictograph is used it will be more effective than a bar chart to show the data to Standard 3 students because the students may be more interested in a chart with symbols rather than bars and may be inclined to be more attentive.				(2 mark
chart to show the data to Standard 3 students because the students may be more interested in a chart with symbols rather than bars and may be inclined to be more attentive.	b)			
more interested in a chart with symbols rather than bars and may be inclined to be more attentive.	A navyon I			
more interested in a chart with symbols rather than bars and may be inclined to be more attentive.	Allswei	think if a pictograp	ph is used it will be more effective than a bar	•
inclined to be more attentive.				
	chart to sh	now the data to Stan	ndard 3 students because the students may be	:
(2 mar	chart to sh	now the data to Stan	ndard 3 students because the students may be	:
(2 mai	chart to sh	now the data to Stan	ndard 3 students because the students may be with symbols rather than bars and may be	:
	chart to sh	now the data to Stan	ndard 3 students because the students may be with symbols rather than bars and may be	
	chart to sh	now the data to Stan	ndard 3 students because the students may be with symbols rather than bars and may be	
	chart to sh	now the data to Stan	ndard 3 students because the students may be with symbols rather than bars and may be	:
	chart to sh	now the data to Stan	ndard 3 students because the students may be with symbols rather than bars and may be	
	chart to sh	now the data to Stan	ndard 3 students because the students may be with symbols rather than bars and may be	
	chart to sh	now the data to Stan	ndard 3 students because the students may be with symbols rather than bars and may be	
	chart to sh	now the data to Stan	ndard 3 students because the students may be with symbols rather than bars and may be	
	chart to sh	now the data to Stan	ndard 3 students because the students may be with symbols rather than bars and may be	
	chart to sh	now the data to Stan	ndard 3 students because the students may be with symbols rather than bars and may be	
	chart to sh	now the data to Stan	ndard 3 students because the students may be with symbols rather than bars and may be	
	chart to sh	now the data to Stan	ndard 3 students because the students may be with symbols rather than bars and may be	

9.

a)



b)

Answer I think beach C should be beautified first. The least number of tourists visited beach C (350) compared to the other beaches. Therefore, if the beach is beautified tourists may want to visit.

The Ministry of Tourism should ensure that the beach and its environment are kept clean. Additionally, the Ministry of Tourism should plant trees and other plants to beautify the beach.

Both of these initiatives may attract more tourists because they will make the beach and its surroundings seem more inviting.

(2 marks)

10. a) Yes, I believe that Terrance's mother is being successful Answer because even though for the first four tests his performance was inconsistent, in the last five tests, Terrance's marks increased drastically as the number of questions he got incorrect decreased drastically. (2 marks) b) Answer No, I do not believe that Yona deserved the prize for the most improved student. I believe Terrance deserved the prize more since his marks consistently improved, over the last five tests. However, Yona's marks are inconsistent and there is no evidence of improvement over the eight tests. (2 marks) 11. a) Answer Pictograph (1 mark) b) Name Mark 60 **Amy** Bella 80 Neil 60

Steve

50

(3 marks)

Revision Test 34

Topics covered: Mode and mean	Time: 50 minutes
Maximum Mark: 70	Your Mark:

1.	Answer 7	(1 mark)
2.	Answer 2	(1 mark)
3.	Answer 6	(1 mark)
4.	Answer 21.634kg or 21 634g	(2 marks)
5.	a) Answer 4	(1 mark)
	b) Answer 6 fishes	(2 marks)
6.	Answer 17	(2 marks)
7.	Answer 9kg	(2 marks)
8.	a)	

	Answer	5 marks	(1 mark)
	b) Answer	5 marks	(2 marks)
9.	a)		
	Answer	85%	(1 mark)
	a) Answer	90%	(2 marks)
10.	Answer	22	(2 marks)
11.	Answer	112	(1 mark)
12.			
	a) Answer	8 children	(1 mark)
	b)		
	Answer	38 students	(3 marks)
13.	a)		
	Answer	82%	(2 marks)
	b)		
	Answer	24 marks	(2 marks)

14. a) (2 marks) Answer Jake and Ishmael scored 17 which is the mean score. b) Answer I believe Coach Miller should choose Zack to be added to the team. I think Zack should be chosen because he scored the highest of all the players represented on the bar chart. Therefore, he is the best player and should be chosen. (2 marks) 15. (3 marks) Answer 91% 16. (3 marks) Answer \$500 17. 24 22 20 18 16 Attendance 12 10 8 6 Mon Tue Wed Thur

	a)	
	Answer 23	
		(3 marks)
	b)	
	Answer 15 students	(1 mark)
18.		
	Answer \$6.86	(3 marks)
19.		
	Answer 48	(2 marks)
20.	a)	
	A norman 2.4	(2 montes)
	Answer 34	(2 marks)
	b)	
	<i>>)</i>	
	Answer 64	(1 mark)
	c)	
	Answer 8	(1 mark)
21.		
	Answer 15	(2 marks)
22.		
	Answer 81	(2 marks)
23.		
	Answer 0	(2 marks)
		,

24.					
	Flavor		Number of students Tally		
	Coconut	9]	
	Chocolate	1	11		
	Vanilla	1	0		
a)					
		10			(1 mark)
b) Answer 1 more	2				(1 mark)
c) Answer 10					(2 marks)
25.					
	Points	Frequency	Tally	Total points	
	2	7		14	
	5	4		20	
	6	6	JH/1	36	
	10	3		30	
a)					
					(2 marks)

b)	
Answer 5	(2 marks)
Answer 23, 23, 28	(4 marks)
Answer I do not agree with the decision to award Claudia. Although it	
is correct that she has the highest average number of houses sold, over	
the 5-year period the number of houses she sold continuously declined.	
The number of houses Anna sold, who's average is very close to the	
highest average, fluctuated throughout the 5-year period. However, Ben,	
who has the lowest average, has continuously increased his yearly sales	
and actually sold the most houses in year 5. While his average is the	
lowest of all three, I believe Ben deserves the award the most.	
	(4 marks)