HENRY PARK PRIMARY SCHOOL
2017 SEMESTRAL EXAMINATION 2
MATHEMATICS
PRIMARY 5

PAPER 1
(BOOKLET A)

Name: _____ ( ) Parent's Signature

Class: Primary 5_____ _____

Marks:

Paper 1	Booklet A	20
	Booklet B	25
Paper 2		55
Total		100

Total Time for Booklets A and B: 1 hour

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.
You are **not** allowed to use a calculator.

Booklet A:
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each of the questions, four options are given. One of them is the correct answer. Choose the correct answer (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet provided.

(20 marks)

1. $3\,150\,000 \div \boxed{?} = 315 \times 100$

What is the missing number in the box?

(1) 10
(2) 100
(3) 1000
(4) 10 000

2. Which of the following numbers when rounded to the nearest thousand is 290 000?

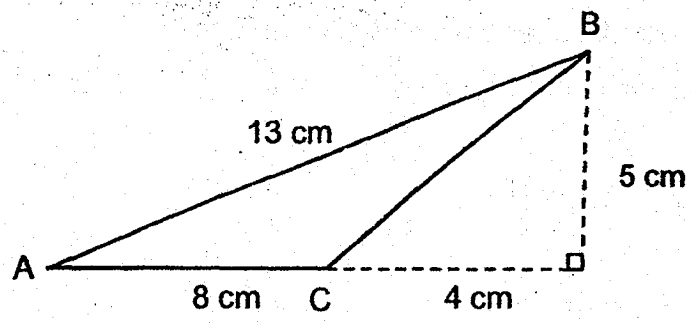
(1) 290 905
(2) 290 549
(3) 289 501
(4) 289 499

3. Express 10 kg 30 g in grams.

(1) 1 030 g
(2) 10 030 g
(3) 10 300 g
(4) 13 000 g

(Go on to the next page)

4. Find the area of triangle ABC.



(1) 10 cm^2
(2) 20 cm^2
(3) 30 cm^2
(4) 52 cm^2

5. Express $9\frac{13}{20}$ as a decimal.

(1) 9.13
(2) 9.52
(3) 9.55
(4) 9.65

6. Arrange the following numbers from the greatest to the smallest.

7, 7.1, 7.01

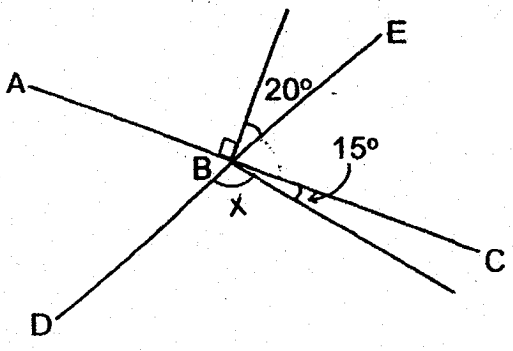
(1) 7, 7.01, 7.1
(2) 7.1, 7, 7.01
(3) 7.1, 7.01, 7
(4) 7.01, 7.1, 7

(Go on to the next page)

7. What is the value of 6 hundreds, 3 tenths and 9 thousandths?

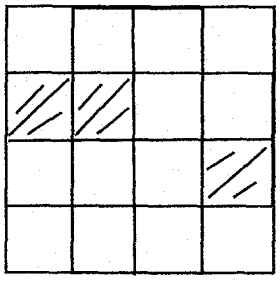
(1) 630.009
(2) 600.930
(3) 600.309
(4) 600.039

8. In the figure below, ABC and DBE are straight lines. Find $\angle x$.



(1) 70°
(2) 75°
(3) 95°
(4) 110°

9. The figure is made up of identical squares. What is the least number of squares that must be shaded so that the figure has a line of symmetry?



(1) 1
(2) 2
(3) 3
(4) 4

(Go on to the next page)

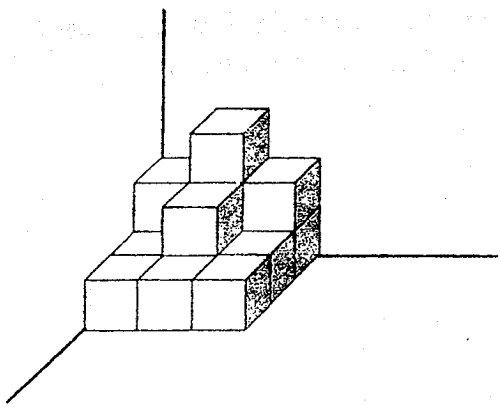
10. In a group of 80 children, 24 were boys. What percentage of the children were girls?

(1) 70%
(2) 56%
(3) 30%
(4) 20%

11. There are 42 students in a class. 12 students walk to school while the rest of the students take the school bus. What is the ratio of the number of students who walk to school to those who take school bus?

(1) 2 : 5
(2) 2 : 7
(3) 5 : 2
(4) 7 : 2

12. The solid below is made of cubes. How many cubes are there?



(1) 9
(2) 10
(3) 13
(4) 14

(Go on to the next page)

13. Janice has twice as many apples as Danny and four times as many apples as Florence. Find the ratio of the number of apples Janice has to the total number of apples Danny and Florence have.

(1) 3 : 4
(2) 4 : 3
(3) 4 : 7
(4) 7 : 4

14. The total mass of Andy and Ben is 105 kg. The total mass of Ben and Caden is 135 kg. Caden is twice as heavy as Andy. What is the average mass of the three boys?

(1) 80 kg
(2) 60 kg
(3) 55 kg
(4) 45 kg

15. David paid $34.40 for 2 books, 3 pencil cases and 4 markers.
Each book cost 3 times as much as each marker. Each pencil case cost $1.20 less than each book. What was the cost of one pencil case?

(1) $2.00
(2) $4.80
(3) $6.00
(4) $7.20

HENRY PARK PRIMARY SCHOOL
2017 SEMESTRAL EXAMINATION 2
MATHEMATICS
PRIMARY 5

PAPER 1
(BOOKLET B)

Name: _____ ( )

Class: Primary 5_____

/ 25

Total Time for Booklets A and B: 1 hour

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

You are **not** allowed to use a calculator.

Booklet B:
Questions 16 to 20 carry 1 mark each. Question 21 to 30 carry 2 marks each.
Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(25 marks)

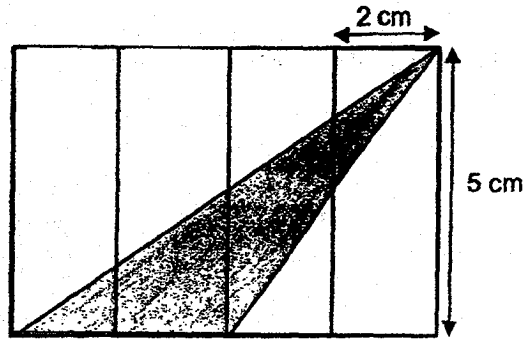
---

16. Find the value of $24 + 48 \div 8 \times 2 - 5$

Do not write in this space

Ans: _____

17. The figure below shows a triangle and four identical rectangles.
Find the area of the shaded part.



Ans: _____ cm^2

18. Find the value of $5\frac{2}{9} + \frac{2}{5}$

Give your answer as a mixed number.

Ans: _____

19. Find the value of $413 \div 4$
Express your answer as a decimal.

Do not write in this space

Ans: _____

20. The table below shows the charges for water usage.

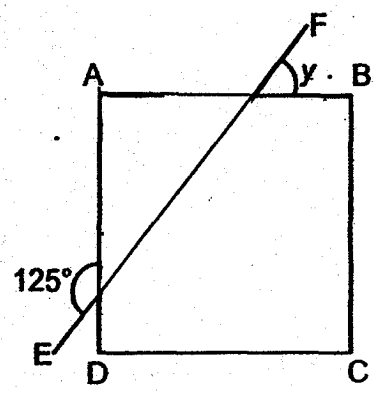
Volume of water	Charges for water usage per m^3
First 40 m^3	\$1.19
Above 40 m^3	\$1.46

The Chan family used 41 m^3 of water in August. How much money did the Chan family pay for the water used in August?

Ans: \$_____

(Go on to the next page)

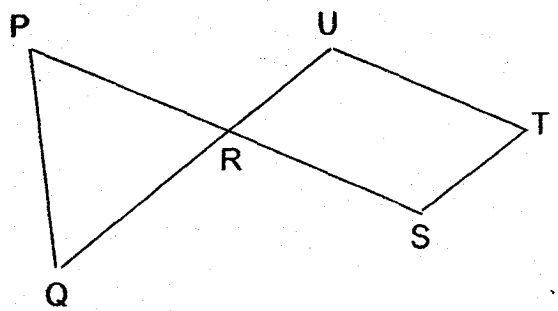
21. In the figure, ABCD is a square and EF is a straight line. Find $\angle y$.



Ans: _____

Do not write in this space

22. In the figure, PQR is an equilateral triangle and RSTU is a parallelogram. PRS and QRU are straight lines. Find $\angle RST$.

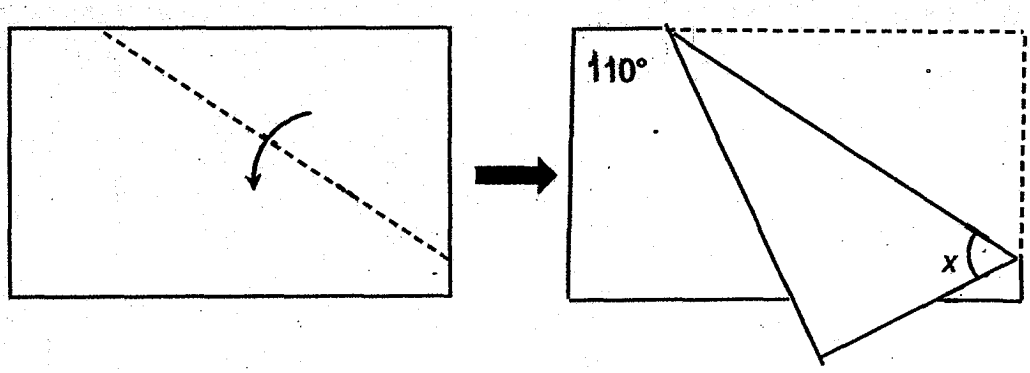


Ans: _____

(Go on to the next page)

23. A piece of rectangular paper is folded along the dotted line as shown below. Find $\angle x$.

Do not write in his space



Ans: _____

24. Each of the following statements is either '**True**', '**False**' or '**Not possible to tell**' based on the given information below. For each statement, put a tick in the correct column.

Janet saved an average of $80 each month from January to April. She saved $50 in May.

		True	**False**	**Not possible to tell**
(a)	Janet saved $80 in January.			
(b)	Janet saved an average amount of $74 from January to May.			

(Go on to the next page)

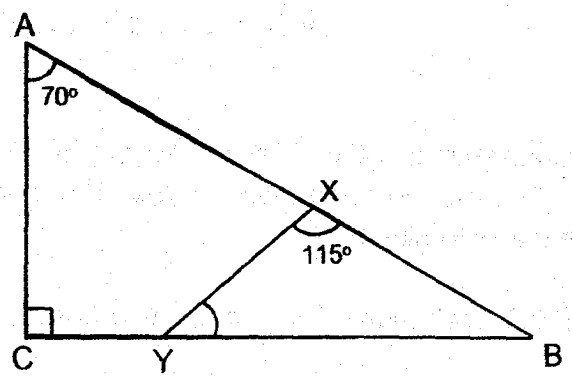
25. $27 : 15 : \boxed{?} = 36 : 20 : 48$.

What is the missing number in the box?

Do not write in this space

Ans: _____

26. In the figure, ABC is a right-angled triangle.
$\angle BAC = 70°$ and $\angle BXY = 115°$. Find $\angle BYX$.



Ans: _____

(Go on to the next page)

27. There are three boxes of chocolate bars. Box A contains thrice as many chocolate bars as Box B. Box B contains twice as many chocolate bars as Box C. Box A contains 40 more chocolate bars than Box C. How many chocolate bars are there in Box B?

Do not write in this space

Ans: _____

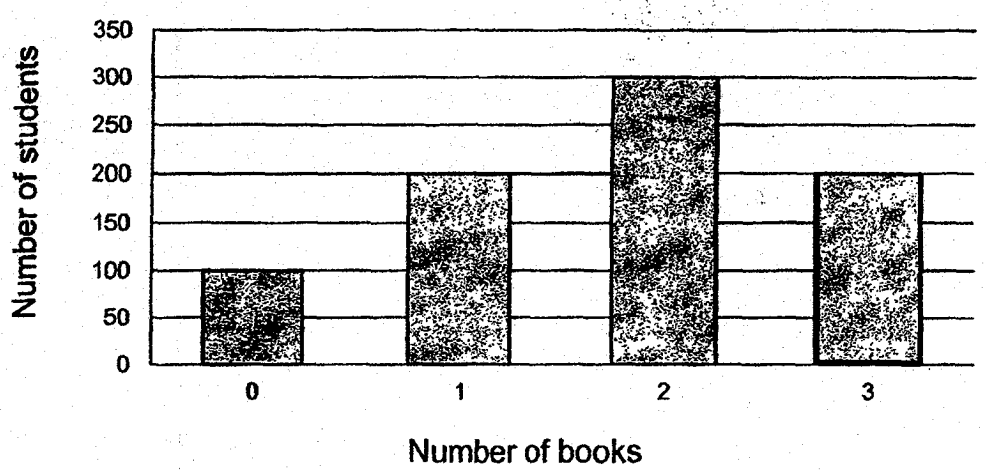
28. Mrs Raju baked 200 pies at first. 40% of them were blueberry pies and the rest were chocolate pies. She baked an additional 100 blueberry pies. What percentage of the pies were blueberry pies in the end?

Ans: _____%

(Go on to the next page)

29. The graph below shows the number of books each student read in a week at Sunflower School.

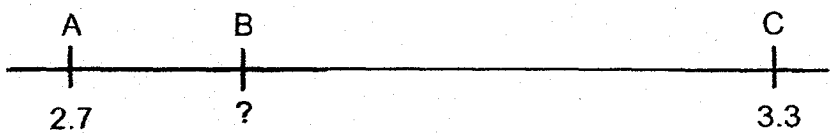
Do not write in this space



What was the average number of books the students read that week?

Ans: _____

30. In the number line below, A represents 2.7, C represents 3.3.
BC is three times as long as AB. What is the number represented by B?



Ans: _____

End of Paper

HENRY PARK PRIMARY SCHOOL
2017 SEMESTRAL EXAMINATION 2
MATHEMATICS
PRIMARY 5

PAPER 2

Name: _____ ( )

Class: Primary 5_____

/ 55

Time for Paper 2: 1 h 30 min

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are allowed to use a calculator.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated.

(10 marks)

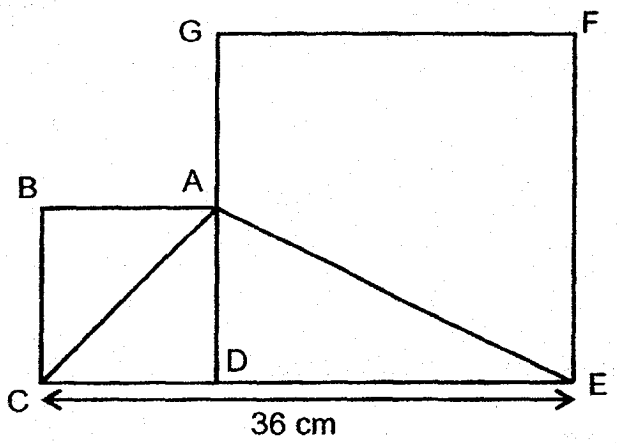
---

1. Whiteboard markers are only sold in packs of 5. Each pack costs $11.50. What is the greatest number of whiteboard markers Mrs Ang can buy with $200?

Do not write in this space

Ans: _____

2. The figure below is made up of 2 squares. Given that CE = 36 cm and DE is twice as long as CD, find the area of triangle ACE.

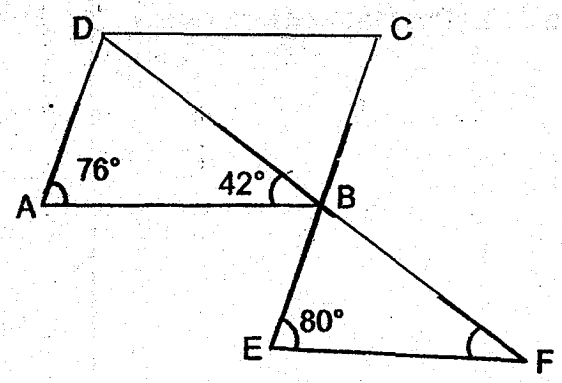


Ans: _____ cm^2

(Go on to the next page)

3. The figure shows a parallelogram ABCD and a triangle BEF. DBF and CBE are straight lines. Find ∠BFE.

Do not write in this space



Ans: _____ °

4. The zoo is offering the following promotion in November.

Entrance ticket ~ $18 per ticket

Special Deal

Buy 10 tickets, get 1 ticket free.

A group of 45 visitors went to the zoo in November. What is the least amount of money the group had to pay for the tickets?

Ans: $ _____

(Go on to the next page)

5. There are 56 crayons in Box A and 96 crayons in Box B. After some crayons are transferred from Box B to Box A, the ratio of the number of crayons in Box A to that in Box B became 5 : 3. How many crayons were there in Box A in the end?

Do not write in this space

Ans: _____

(Go on to the next page)

For questions 6 to 17, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question.

(45 marks)

---

6. Mandy pours 7 pails of water into an empty rectangular tank measuring 20 cm by 50 cm by 40 cm. Each pail contains 2.5 ℓ of water. How many more of such pails of water does she need to fill the tank to the brim?

Do not write in this space

Ans: _____ [3]

(Go on to the next page)

7. 204 eggs were packed into big and small cartons. Each big carton contained 12 eggs and each small carton contained 6 eggs. There were 8 more big cartons than small cartons. How many such big cartons were used?

Do not write in this space

Ans: _____ [3]

(Go on to the next page)

8. Mrs Pott gave a group of children a total of 368 cupcakes. The ratio of the number of girls to the number of boys was 4 : 5. Every girl was given 2 cupcakes and every boy was given 3 cupcakes. How many children were there?

Do not write in this space

Ans: _____ [3]

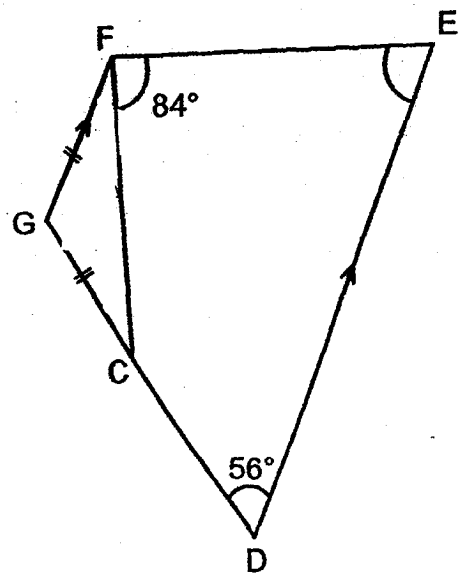
9. Mr Ho had $346 500. He spent 40% of his money to pay for a car. The remaining amount of money was deposited into his bank account with an annual interest of 1.25%. How much interest did Mr Ho earn at the end of 1 year?

Ans: _____ [3]

(Go on to the next page)

10. In the figure below, DEFG is a trapezium with DE parallel to GF. GCD is a straight line and GCF is an isosceles triangle with GC = GF. Given that $\angle GDE = 56°$, $\angle CFE = 84°$, find $\angle DEF$.

Do not write in this space



Ans: _____ [4]

(Go on to the next page)

11. Aaron earned 5 points for every puzzle he solved on an online game.
He earned a bonus of 50 points for every 8 puzzles he solved.
Aaron earned a total of 840 points at the end of the game.
How many puzzles did he solve in the game?

Do not write in this space

Ans: _____ [4]

(Go on to the next page)

12. Jane bought 15 notebooks of the same kind. Her brother bought 11 such notebooks. Her brother also bought 4 pens at $2.25 each. Altogether, he spent $17 less than Jane. What was the total amount of money Jane spent?

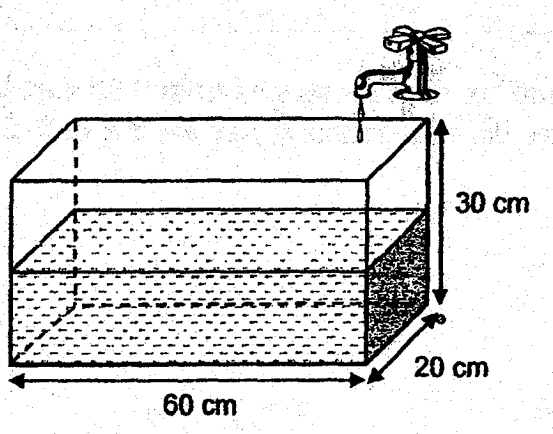
Do not write in this space

Ans: _____ [3]

(Go on to the next page)

13. A rectangular tank measuring 60 cm by 20 cm by 30 cm was $\frac{3}{5}$ filled with water. Kate turned on the tap at 9.05 a.m. to fill more water into the tank. She turned off the tap at 9.11 a.m. The tank then became $\frac{11}{12}$ filled with water. Given that water flowed out of the tap at the same rate, find the amount of water that flowed out of the tap in a minute.

Do not write in this space



Ans:_____ [4]

(Go on to the next page)

14. ABC Company wanted to hire a delivery service to transport 38 850 kg of sand. The load and rental cost of a lorry from the delivery service package are seen in the table below.

Do not write in this space

	Delivery service package
Load to be carried per lorry	Mass not over 2000 kg
Rental cost of 1 lorry with driver	$75 per hour or part thereof

Given that ABC Company hired the delivery service from 9.30 a.m. to 12.30 p.m., how much money did the company pay for the delivery service?

Ans:_____ [3]

(Go on to the next page)

15. Gerald's monthly salary was $500 less than Kenny's monthly salary. Both men spent $1500 each month and saved the rest of their salaries. After a few months, Kenny saved $7200 but Gerald only saved $3200.

(a) What was Gerald's monthly salary?

(b) Gerald wanted to buy a furniture set that cost $5900. How many more months would Gerald need to save to have enough money to buy the furniture set?

Do not write in this space

Ans: (a)_____ [3]

(b)_____ [2]

(Go on to the next page)

16. 40 children in Primary 5K sold an average of 19 charity tickets in a fund raising event. There were 8 more boys than girls in the class. The boys sold an average of 15 charity tickets. What was the average number of charity tickets sold by the girls?

Do not write in this space

Ans: _____ [5]

(Go on to the next page)

17. Kris had some pink, blue and green highlighters for sale in her bookshop. There were 48 more blue highlighters than green highlighters. She had 10 more pink highlighters than blue highlighters. After selling $\frac{3}{4}$ of the blue highlighters and $\frac{1}{2}$ of the green highlighters, there were 315 highlighters left. How many pink highlighters did Kris have?

Do not write in this space

Ans: _____ [5]

-END OF PAPER-

Setters: Mrs Ling Lee Ching, Mdm Ong Li Ling, Mr Jenfry Tseng and Ms Veronica Yeo

Henry Park

P5 SA2 Maths 2017

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	3	2	2	4	3	3	3	1	1
Q11	Q12	Q13	Q14	Q15					
1	4	2	3	2					

Answer Key

Year: 2017

Level: Primary 5

School: Henry Park Primary School

Subject: Mathematics

Term: SA2

Paper 1

Q16 31

Q17 $10cm_2$

Q18 $5\frac{28}{45}$

Q19 103.25

Q20 $49.06

Q21 35

Q22 120

Q23 55

Q24 A=Not possible to tell

B=True

Q25 36

Q26 45

Q27 16 chocolate bars

Q28 60%

Q29 1.75

Q30 2.85

Paper 2

Q1 $11.50x17=$195.50

17x5=**85 markers**

Q2 36÷3=12

(12x36)÷2=**216cm²**

Q3 180-76-42=62

180-80-62=**38**

Q4 10+1=11

11x4=44

45-44=1

18x10=180

180x4=720

720+18**=$738**

Q5 56+96=152

152÷8=19

19x5=**95 crayons**

Q6 20cmx50cmx40cm=40 000cm3=40 litres

40-(7x2.5)=22.5

22.5÷2.5=**9**

Q7 12x8=96

204-96=108

12+6=18

108÷18=6

6+8=14

Q8 5x3=15

4x2=8

368÷(15+8)=16

16x9=144

Q9 346 500÷100=3456

100-40=60

3456x60=207 900

207 900÷100=2079

2079x1.25=$2598.75

Q10 180-56=124

(180-124)÷2=28

84+28=112

360-112-124-56=68

Q11 8x5=40

40+50=90

90x9=810

840-810=30

30÷5=6

9x8=72

72+6=78

Q12 2.25x4=9

17+9=26

15-11=4

26÷4=6.50

6.50x15=**$97.50**

Q13 60x20x30=36 000

36 000÷5=7200

7200x3=21600

36000÷12=3000

3000x11=33 000

33 000-21 600=11 400

11 400÷6=**1900cm^3**

Q14 40 000÷2000=20

75x3=225

225x20=**$4500**

Q15a) 7200-3200=4000

4000÷500=8

3200÷8=400

400+1500=1900

1900+500=2400

2400-1500=900

900x8=**7200**

B) 5900÷4=14.75

14.75-8=6.75

Q16 40X19=760

40- 8=32

32÷2=16

16+8=24

24x15=360

760-360=400

400÷16=25

Q17 48÷4=12

48+10=58

315-58=257

257-12=245

245÷7=35

(35×46)+58=198