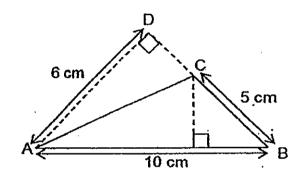
ST. HILDA'S PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1, 2012 **MATHEMATICS** PRIMARY SIX PAPER ONE **BOOKLET A**

Na	ıme:		(}			
Cla	ass:	P6 /			Marks:	/ 20	
Da	te:	3.5.2012		Parent's S	ignature:		
Tin	ne fo	or Booklets A and B:	50 n	ninutes			
Yo	u ar	e <u>not</u> allowed to use	a calcula	itor.			
cho	лı Q	ons 1 to 10 carry 1 ma lestion, four options at (1, 2, 3 or 4). Shade	re aiven.	One of them i	is the correct	answer Make v	ou ve
1	.6	120000 = 6 000 000 +	+	2 000 + 5	-		
	(1) (2) (3) (4)	12 000 100 000					
٠,			•				
2	Ro	und off 4 999(509 to th	ie neares	st thousand.			
	(1) (2) (3) (4)	4 999 500 4 999 510 4 999 600 5 000 000					
3	Exp	oress 0.025 as a perce	ntage.	•			
	(1) (2) (3) (4)	0.25% 2.5% 25% 250%		•			

- Elroy saved \$60 every two weeks. 4 How long did he need to save \$720?
 - (1) 6 weeks
 - 12 weeks (2)
 - (3) 24 weeks
 - 48 weeks (4)
- 5 Simplify 8g - 8 + 2g + 6
 - (1)
 - (2)
 - 10*g* 2 10*g* + 2 10*g* 14 (3)
 - 10g + 14(4)
- The figure below is not drawn to scale. 6



Find the area of triangle ABC.

- 15 cm² 25 cm² (1)
- (2)
- 30 cm² (3)
- 300 cm² (4)
- What is 50 tens and 50 tenths? 7
 - (1) 50.50
 - (2) 500.50
 - (3) 505
 - (4)550

- 8 Express 17 ÷ 8 as a fraction.
 - _ (1)
 - (2)
 - (3)
 - (4)
- 9 $2.75 l + 250 ml = ___ l$
 - (1) 5.25
 - 4,575
 - (3) 3
 - (4) 2.325
- Which one of the following has the largest volume?
 - A 1-litre bottle (1)
 - A cuboid which measures 12 cm by 8 cm by 9 cm. A container which can hold 965 cm³ of water (2)
 - (3)
 - A cube of sides 8 cm (4).
- The ratio of the perimeter of a square to the perimeter of an equilateral triangle is 2:5.

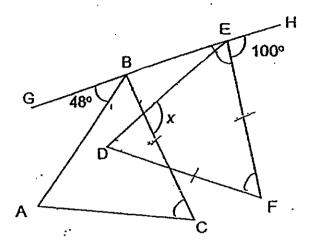
If the area of the square is 144 cm², find the length of the side of the equilateral triangle.

- (1) 10 cm
- (2) 30 cm
- (3) 40 cm
- (4) 120 cm

12 In the diagram below, ABC and DEF are equilateral triangles. GBEH is a straight line.

 \angle GBA = 48° and \angle HEF = 100°.

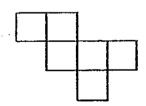
Find $\angle x$.



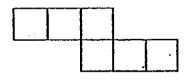
- (1) 72°
- (2) 88°
- (3) 92°
- (4) 98°

13 Which one of the following is not a net of a cube?

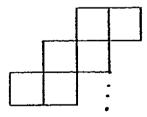




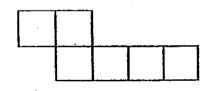
2)



3)



4)



- 14 $\frac{1}{5}$ of Ali's money is $\frac{2}{3}$ of Gopal's money. Express Ali's money as a fraction of Gopal's money.
 - (1)
 - (2)
 - $\frac{10}{3}$ $\frac{5}{3}$ $\frac{10}{13}$ (3)
 - (4)

- 15 5 girls have an average mass of 32 kg. When a new girl joins the group, their average mass increases to 35 kg. What is the mass of the new girl?
 - .15 kg
 - 18 kg
 - 30 kg
 - 50 kg

Do not write in this space

ST. HILDA'S PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1, 2012 MATHEMATICS PRIMARY SIX -PAPER ONE BOOKLET B

Name Olasa		
Class		Marks:/20
Date:	<u>3.5.2012</u>	Parent's Signature:
Time !	for Booklets A and B:	50 minutes
ou a	re <u>not</u> allowed to use a	a calculator.
provid	ed for each question a	nark each. Show your working clearly in the space nd write your answers in the spaces provided. For give your answers in the units stated. (10 marks)
16	25 × 24 + 24 = 33 × 24	× 24 + 3 × 24
		Ans:
7	Express 50 g as a perce	entage of 2 kg.
		Ans:%
8	An apple costs $n \phi$. How much change wou	ld Farhan get if he paid \$10 for buying 7 apples?
	·	Ans: <u></u> \$
·		<u> </u>

19 Siew Leng had 12 red marbles, 18 green marbles and 36 blue marbles. Find the ratio of her red marbles to her green marbles to her blue marbles.

Give your answer in its simplest form.

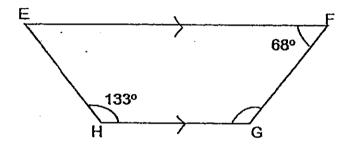
Do not write in this space

Ans: _____

The figure below is not drawn to scale. EFGH is a trapezium.

EF // GH.

Find ∠ FGH.



Ans:

21 How many sixths are there in $2\frac{1}{3}$?

Ans:

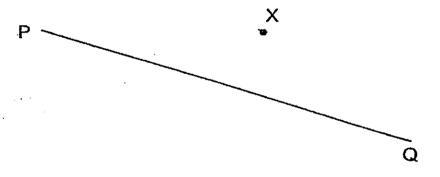
22 If $\frac{3}{4}$ of a number is 12, what is $\frac{1}{3}$ of the number?

Апs: _____

Express $2\frac{7}{9}$ as a decimal. Round off your answer correct to 2 decimal places.

Ans: _____

24 Draw a line AB parallel to the line PQ passing through point X.



A box measures 16 cm by 18 cm by 12 cm. How many 3-cm cubes can fit into the box?

Ans:

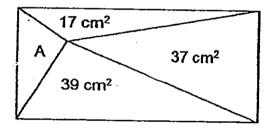
Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

Joanne had \$200 more than Danny.
If Danny gave \$30 to Joanne, the ratio of Joanne's money to Danny's money would be 14:1.
How much money did Danny have?

|--|

The figure below shows 4 different triangles within a rectangle. Find the area of triangle A.

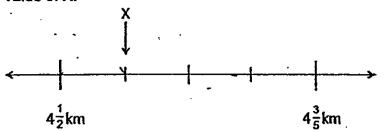


Ans:	 cm²
Ans:	 cm²

28 A packet contained 1.25 l of fruit juice. Susan drank $\frac{3}{5}$ of it. How much juice was left?

Ans:		ml

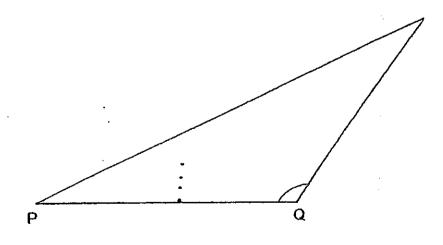
29 Find the value of X.



Do not write in this space

Ans: km m

Draw a triangle PQR, in which QR= 6 cm and PQR = 125°. The line PQ has been drawn for you.



END OF BOOKLET B Have you checked your work carefully?

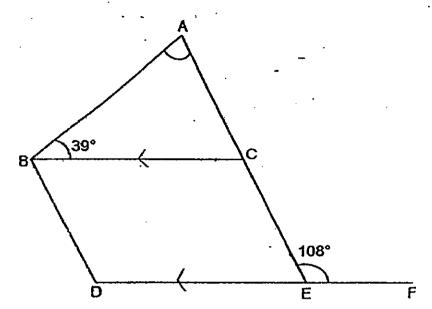
Do not write in this space

ST. HILDA'S PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1, 2012 MATHEMATICS PRIMARY SIX PAPER TWO

Name:			-)		
Class:	P6/		•	Marks:	/ 60
Date:	<u>3.5.2012</u>		Parent's Si	gnature:	
Γime: 1 I	hour 40 minutes		•	•	
			·		
You are :	allowed to use a c	alculator.			
Debivoic	s 1 to 5 carry 2 m for each question which require unit	and write ve	our answers	in the snaces n	n the space rovided. For (10 marks)
	surface area of a c				
lts ne	et is shown below.	•			
, FING	the perimeter of th	e net of the	cube.	•	
		<u> </u>			•
		-			
•		L			
•					
	•				
	. •				
	•				
	·				
	e and				١
			Ans:		cm
		•			

In the figure below, not drawn to scale, BCED is a parallelogram. ACE and DEF are straight lines, \angle CEF = 108° and \angle ABC = 39°. Find \angle BAC.

Do not write in this space



Ans:

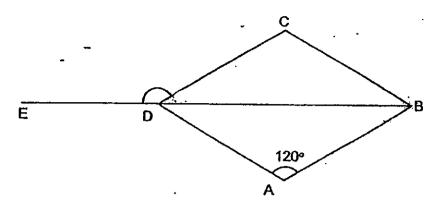
3 The total height of 3 boys is the same as the total height of 5 girls. If the average height of the 3 boys is 1.8 m, what is the difference between the average height of a boy and the average height of a girl?

Ans:

m

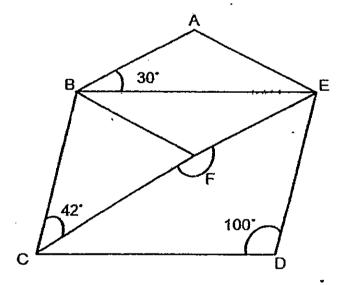
The figure below, not drawn to scale, shows a rhombus ABCD. EDB is a straight line. Find ∠ EDC.

Do not write in this space



Ans:					
	_				

The figure below is not drawn to scale.
 ABFE is a rhombus.
 BEDC is a parallelogram.
 Find ∠CFE.



Ans:		

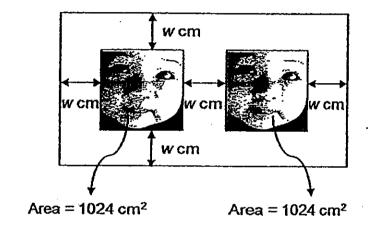
For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (50 marks)

Do not write in this space

6 Two identical square paintings are mounted on a rectangular frame as shown below.

The border around each square painting is w cm wide. Each painting has an area of 1024 cm².

- (a) Find the length of the frame in terms of w.
- (b) Find the area of the rectangular frame if w = 5.



Ans:	(a)	 [1]
	(b)	[2]

7	Jim receive	Jim's savings to Ken's savin d some money and his savin	igs increased l	by 60%.		Do not write in this space
_	What perce savings are	intage of Ken's money must l	be decreased	so that their		
	Gavingo are	· equal:	٠.		•	
						-
				•		
		•				
						-
	$x^{*} = x^{*}$					
		A	ns:	<u>-</u>	[3]	
		·			•	
8	The table b	elow shows the parking charg	ges for cars at	YYZ Mail ea	made	
	THE LADIE D		yes for cars at		ipaik.	
		First hour		\$2.20		
		Every additional $\frac{1}{2}$ hour or	part thereof	\$0.60	-	
	Cindy parke	d her car from 11.15 a.m. to	2 p.m.		. •	
		\$2 parking discount, how mu		have to pay	? .	
	•	•				
		•				
	,					
	_					
	•					
	•					
					-	
		· A	ns:		[3]	
	·····					
		• •				1

	·
.9	A rectangular tank was filled with water flowing from a tap.
	At 10 a.m. the tank was empty.
	At 1 p.mthe-tank was- $\frac{1}{3}$ -filled with water.
	At what time would the tank be $\frac{7}{12}$ -filled with water flowing from the tap?

Ans: [3]

Do not write in this space

10 Habri had some 20¢-coins and 50¢-coins.

He spent $\frac{1}{4}$ of his 20¢-coins and 40% of his 50¢-coins.

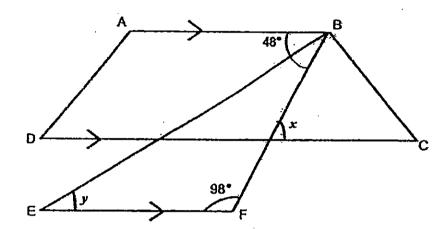
The value of 20ϕ -coins left was the same as the value of 50ϕ -coins left. If the difference between the value of 20ϕ -coins and the value of 50ϕ -coins he had at first was \$12, how much did Habri have at first?

Ans: _____[4]

11 The figure below is not drawn to scale.
It is made up of a trapezium ABCD and a triangle BEF.
DC // EF.

Do not write in this space

- (a) Find $\angle x$.
- (b) Find $\angle y$.



(b) ______[2]

Do not write in this space

12 Study the table below carefully.

	A	B.	C	D	E	F
Row 1	1	2-	3	- 4	5 -	6
Row 2	12	11	10	9.	· 8	7
Row 3	13	14	15	16	17	18
Row 4	24	23	22	21	20	19

(a) What is the largest number in Row 20? [1]

Ali has a 4-square grid window cut-out. He places it as shown below.

	Α	В	С	D)	E	F
Row 1	1	2	3	4	5	6
Row 2	12	11	10	9	8	7
Row 3	13	14	15 :	16	17	18
Row 4	24	23	22	21	20	19

He finds the sum of the numbers in Rows 1 and 2 of the square grid placed over is always 26.

- (b) What would be the sum of four numbers in Rows 3 and 4 of the square grid placed over? [1]
- (c) If the pattern continues, what is the smaller-number-of-the 2-rows if the sum of four numbers is 242? [2]

Ans:	(a)	 [1]
å	(b)	 [1]
	(c)	[2]

Do not write 13 $\frac{3}{5}$ of Bette's money is \$324 more than $\frac{3}{4}$ of Tina's money. in this space Bette has twice as much money as Tina. (a) How much does Tina have? How much does Bette have? (b) [2]

[2]

14 Alice had some apples and bananas.

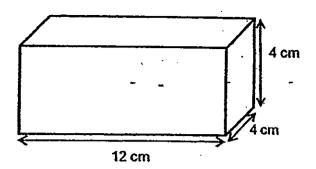
- $\frac{3}{4}$ of the apples and $\frac{6}{7}$ of the bananas are in good condition.
- $\frac{9}{11}$ of the good fruits are apples.

If the number of apples Alice had was 522 more than bananas, how many fruits did Alice have in all?

Do not write

in this space

Ans: _____[4]



Dana has 15 such iron blocks as above. She melts all the iron blocks to form a large square-based cuboid. If the height of the new cuboid is 80 cm, find the total surface area of the new cuboid.

Ans: [4]

Do not write 16 Mary bought some red marbles and gave half to Noel. in this space Noel bought some blue marbles and gave half to Mary. Mary lost 16 red marbles and Noel lost 55 blue marbles. The ratio of Mary's red marbles to blue marbles became 18: 85 and the ratio of Noel's red marbles to blue marbles became 7:20. How many red marbles did Mary buy? [5] Ans:

17 Container A and Container B contained some sand.

If $626\frac{5}{8}$ g of the sand is removed from Container A, the mass of the sand in Container A will be 25% that of the sand in Container B.

If 179 g of the sand is removed from Container B, the mass of the sand in Container B will be $58\frac{1}{3}$ % that of the sand in Container A.

What is the mass of the sand in Container A?

Do not write in this space

[5]

18	There Some	were 846 glasse of the glasse	asses in a ba	sket. d to be l	oroken and	thrown away.	<u>.</u> .	Do not write in this space
	Of the	e remainder.	$\frac{2}{2}$ of the gla	isses w	ere sold and	$1 \frac{1}{4}$ of the glasse	es	
	was g	jiven away. e were 56 glas	· ·		-	4	· ·	
	(a)	How many o	glasses were	sold?		. •		
	(b)	What fraction	n of the glas	ses in tl	ne basket w	ere thrown away	?	
			-					
							•	
						٠		
		•						
	· ,							
		÷						
		•						
							•	
				Ans:	(a)		[3]	
					(b)		[2]	

Page 14 of 14

END OF PAPER TWO
Have you checked your work carefully?

St. Hilda's Primary School Semestral Assessment 1 – 2012 Answer Key for P6-Mathematics

Paper 1

1)	4	.6)	1	11)	3
1) 2) 3) 4)	4	7)	3	12)	3
3)	2	8)	3	13)	4 .
	3	9)	3	14)	1
5)	1	10)	1	15)	4

16. 10

17. 2.5

18. (10 - ⁷ⁿ/₁₀₀)

19.2 : 3 : 6

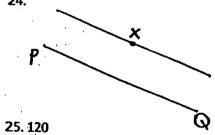
20. 112

21. 14

22.5%

23. 2.78

24.

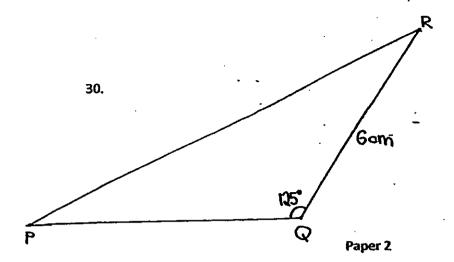


26. 17.70

27.19

28.500

29. 4 km 525 m



- 1. 112
- 2. 69
- 3. 0.72
- 4. 150
- 5. 172
- 6. (a) (64 + 3w) cm
 (b) 3318 cm²
- 7. $60\% \times 50 = 30$ 30 + 50 = 80 100 - 80 = 20 $(20 \div 100) \times 100 = 20\%$
- 8. 2.2 + 0.6 + 0.6 + 0.6 + 0.6 = 4.60 4.6 - 2 = \$2.60
- 9. $\frac{1}{12} \div 3 = \frac{1}{9}$ $\frac{1}{12} \cdot \frac{1}{12} = \frac{1}{12}$ $\frac{1}{12} \cdot \frac{1}{12} = \frac{1}{12}$ $\frac{1}{12} \cdot \frac{1}{12} = \frac{1}{12}$
- 10. 4-1=3 6→60% 40%→4 10 x 50 = 500 20 x 20 = 400 \$12 = 1200¢ 500-400 = 100 1200 ÷ 100 = 12 120 x 50 = 6000 240 x 20 = 4800

$$6000 + 2800 = 10800$$
¢

(b)
$$82^{\circ} - 48^{\circ} = 34^{\circ}$$

(b)
$$13 + 14 + 24 + 23 = 74$$

(c)
$$242 \div 2 = 121$$

$$121 - 11 = 110$$

$$110 \div 2 = 55$$

$$12B = 15T + 6480$$

$$B = 2T$$

$$24T = 15T + 6480$$

$$24T - 15T = 6480$$

$$9T = 6480$$

$$1T = 6480 \div 9 = $720$$

14.
$$4 \times 3 = 12$$

$$11 \times 3 = 33$$

$$12 \times 3 = 36$$

$$9 \times 3 = 27$$

$$36 - 7 = 29$$

$$36 + 7 = 43$$

15.
$$4 \times 4 \times 12 = 192$$

$$192 \times 15 = 2880$$

$$2880 \div 80 = 36$$

$$36 = 6$$

$$6 \times 80 = 480$$

$$480 \times 2 = 960$$

$$960 + 36 = 996$$

$$996 \times 2 = 1992 \text{ cm}^2$$

16.
$$7N = 18M + 16$$

$$85M = 20N + 55$$

$$140n = 360M + 320$$

$$595M = 140N + 385$$

$$595M = 360M + 320 + 385$$

$$595M - 360 = 705$$

$$M = 705 \div 235 = 3$$

- 54+6=70 70x2≈<u>140</u>

17. $58\%\% \rightarrow \%_{12}$ $\%B + 626\%_{8} \rightarrow A$ $\%_{12}A + 179 \rightarrow B$ $\%_{48}A \rightarrow 671\%$ $A \rightarrow 671\% \div 41 \times 48 = 786g$

18. (a) $\frac{1}{2} + \frac{1}{4} = \frac{11}{12}$ $1 - \frac{11}{12} = \frac{1}{12}$ $\frac{1}{2} = \frac{8}{12}$ $56 \times 8 = \frac{448}{12}$ (b) $56 \times 12 = 672$ 846 - 672 = 174 $\frac{174}{246} = \frac{23}{141}$