

PRIMARY 6 MID-YEAR EXAMINATION 2015

Name :	()	Date: <u>18 May 2015</u>
Class : Primary 6 ()		Time: <u>8.00a.m. – 8.50a.m.</u>
Parent's Signature :			

MATHEMATICS PAPER 1

20

(BOOKLET A)

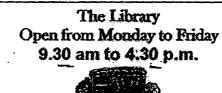
INSTRUCTIONS TO CANDIDATE

- 1. Write your name, class and register no.
- 2. Do not turn over this page until you are told to do so.
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- 5. Show your working clearly as marks are awarded for correct working.
- 6. You are NOT allowed to use a calculator.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet.

(20 marks)

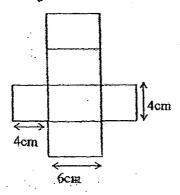
- 1) Round 4.728 to 2 decimal places.
 - (1) 4.80
 - (2) 4.73
 - (3) 4.72
 - (4) 4.70
- 2) In 924.53, what does the digit 5 stand for?
 - (1) 5 tenths
 - (2) 5 hundredths
 - (3) 5 ones
 - (4) 5 tens
- 3) The opening hours of a school library are shown below. How long is the library open each day?



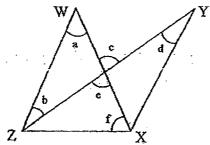


- (1) 6 h
- (2) 6 h 30 min
- (3) 7 h
- (4) 7 h 30 min

4) The figure shows the net of a cuboid. Find its volume.

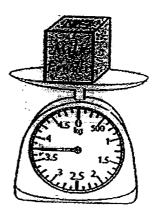


- (1) 64 cm³
- (2) 96 cm³
- (3) 144 cm³
- (4) 216 cm³
- 5) In a bus of 40 passengers, 24 are women. What is the ratio of the number of men to the number of women?
 - (1) 2:3
 - (2) 2:5
 - (3) 3:2
 - (4) 3:5
- 6) In the figure shown, WX and YZ are straight lines. Which of the two angles given in the figure are equal?



- (1) ∠a and ∠f
- (2) ∠b and ∠d
- (3) ∠c and ∠e
- (4) ∠d and ∠e

- 7) Find the mass of the packet of milk powder.
 - (1) 3.7 kg
 - (2) 3.8 kg
 - (3) 3.65 kg
 - (4) 3.75 kg



8) Which of the following figures completes the other symmetrical half of the figure?

W		
	Н	·
		Α
	Т	

(1)			W
		Н	
	Α		
		T	

(2) W H A T

(3)	W	,	
		Н	
			A
		T	

(4) W H A T

- 9) Zeph receives \$120 each month. He spends \$80 and saves the remainder. What fraction of his expenditure is his savings?
 - (1) $\frac{2}{3}$
 - (2) $\frac{1}{2}$
 - (3) $\frac{2}{5}$
 - (4) $\frac{1}{3}$
- 10) Express 2.5 as a percentage.
 - (1) 2.5%
 - (2) 25%
 - (3) 250%
 - (4) 2500%
- 11) How much will Mary have to pay for 4 slices of cake during the sale?

SALE!!

20% off from the 3rd slice of cake onwards!



Usual price: \$3.50 per slice

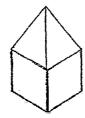
- (1) \$14
- (2) \$12.60
- (3) \$11.90
- (4) \$8.40

- 12) Michael bought h twenty-cent stamps and 5 fifty-cent stamps. How much did he spend on the stamps? Give your answer in terms of h.
 - (1) \$(20h + 250)
 - (2) \$270h
 - (3) $\$\frac{270h}{100}$
 - $(4) \qquad \frac{20h + 250}{100}$
- 13) A C

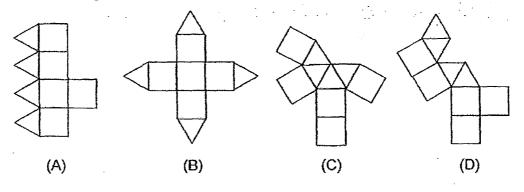
In the diagram on the left, A, B, C and D are four points on the ground. In what direction is C from A?

- (1) East
- (2) South
- (3) South-East
- (4) South-West
- 14) $\frac{1}{5}$ of A is the same as $\frac{2}{3}$ of B and A is twice of C. What is the ratio of A: B: C?
 - (1) 10:3:5
 - (2) 10:3:20
 - (3) 3:10:6
 - (4) 1:2:2

15) The figure below shows a solid.



Which of the following nets can be folded to form the solid shown above?



- (1) A and B only
- (2) B and C only
- (3) A, B and C only
- (4) A, B, C and D



Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

16) Write down all the common multiples of 6 and 9 that is less than 40.

Ans:

17) Find the value of $\frac{3}{4} \div 36$ Give your answer as a fraction in the simplest form.

Ans; _____

18) What is the value of $54 - 63 \div 7 + 150 + 6 \times 60$?

Ans:

19) Express $\frac{3}{20}$ as a decimal

Ans:

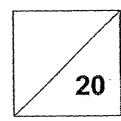


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MATHEMATICS PAPER 1

(BOOKLET B)



INSTRUCTIONS TO CANDIDATE

- 1. Write your name, class and register no.
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20) Find the value of $2 - \frac{1}{3} + \frac{3}{4}$ Give your answer as a fraction in the simplest form.

Ans: _____

21) The average of 3 numbers is 18. The average of another 2 numbers is 7. What is the average of the 5 numbers?

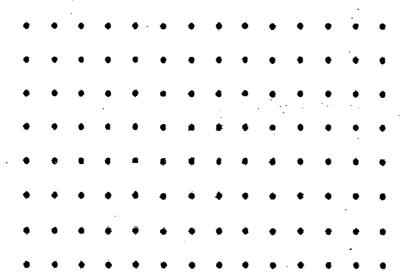
Ans:

22) This shape



is used to form a tessellation in the grid below.

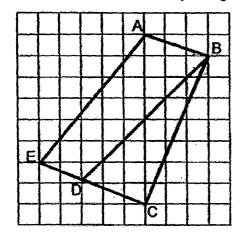
The boundary of the tessellation has been drawn for you. Complete the tessellation by drawing the correct number of unit shape within the boundary.



23) Roxann wrote the numbers 1 to 99 on cards for a class bonding activity. How many times did she write the digit 9?

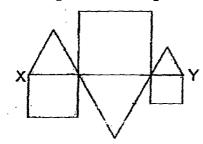
Ans: _____

24) Which two lines in the square grid below are perpendicular to each other?



Ans:____ and ____

25) The figure below is formed using 3 squares and 3 equilateral triangles. The length of the straight line XY is 17 cm. Find the perimeter of the figure.



Ans: _____ cn

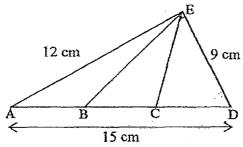
Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

26) Keith parked his car for 4 hours and 15 minutes. How much did he have to pay for car park charges?

Rate	Parking fees
First 1/2 hour	\$3.00
Each subsequent 1 hour or part thereof	\$1.50

Ans:	\$
------	----

27) The figure shows a right-angled triangle, ADE. AB = BC = CD. What is the area of triangle EBC?



Ans:	 cm'

28) Gurmit bought a watch at a discount of 20%. Its usual price was \$250 without GST. Find the 7% GST of the discounted price.

Ans: \$

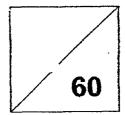
29)	Shannon had 12 bookmarks. She sold 3 of them at $$5f$ and the rest at $$f$ each. How much did she collect in terms of f ?
	Ans: \$
30)	Miss Tan baked some muffins. If she gives 4 to each of her pupils, she will have 6 muffins remaining. If she gives 5 muffins to each of her pupils, there is no remainder. How many muffins did Miss Tan bake?
æ	
	Ans:
	- END OF PAPER 1 -



PRIMARY 6 MID-YEAR EXAMINATION 2015

Name :(()	Date: <u>18 May 2015</u>
Class : Primary 6 (Time: <u>10.00a.m. – 11.40a.m</u>
Parent's Signature :		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	 .

MATHEMATICS PAPER 2



INSTRUCTIONS TO CANDIDATE

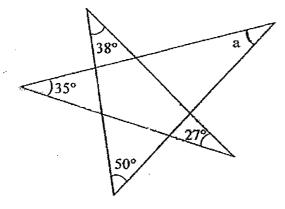
- 1. Write your name, class and register no.
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- 6. You are allowed to use a calculator.

prov	stions 1 to 5 carry 2 marks each. Show your wided for each question and write your answers in the units, give your answers in the units.	n the spaces provided. For			
1)	Express 6h as a percentage of 90 min.	14.94			
		Ans:%			
2)	A wooden plank is 1.8 m long, 0.6 m wide and 2 c	m thick. What is its volume?			
		Ans:cm ³			
3)	The figure below is made up of 2 overlapping triangles, X and Y. The ratio of the shaded area to the area of Triangle X is 3:11. The ratio of the shaded area to the area of Triangle Y is 4:11. What is the ratio of the shaded area to the total unshaded area of the figure?				
	X Y				
		• •			
		Ans:			

4) Renny is 16 years younger than her cousin. In 4 years' time, their total age will be 48 years. How old is Renny now?

Ans: ______years old

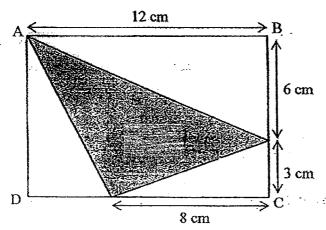
5) The figure, not drawn to scale, is formed using five straight lines. Find ∠a.



Ans: _____

ques The I	questions 6 to 18, show your working clearly in the space provided for each stion and write your answers in the spaces provided. number of marks available is shown in brackets [] at the end of each queart-question. (50 marks)	
6)	Shawn had \$90 more than Abigail. If Abigail gave Shawn \$15, Shawn wou have thrice as much money as Abigail. How much money did Shawn have first?	ild at
· ·		
	Ans:	[3m]
7)	Four children take 2h to wrap 8 gift boxes. How long will it take 10 children wrap 20 boxes?	ı to
	Ans:	[3m]

8) In the figure below, ABCD is a rectangle. Find the area of the shaded part.



Ans:		[3m]
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Rachel needs to make some wrist bands for a fund-raising day. She made $\frac{1}{5}$ of the wrist bands on the first day and 45 on the second day. The number of wrist bands that she made on the second day was $\frac{1}{4}$ more than the number of wrist bands she made on the first day. How many wrist bands does Rachel need to make for the fund-raising day?

Ans: _____[3m]

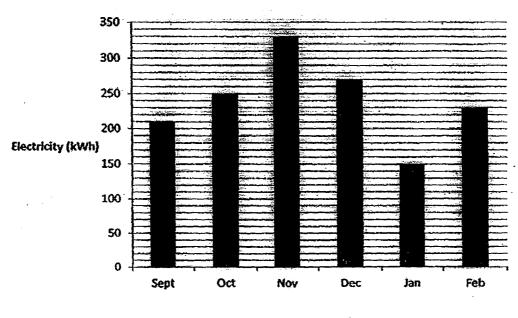
10)	8 pails of water can fill $\frac{7}{1}$ fill the tank completely.	•		
		* "		
				,
				·
			Ans:	[3m]
11)	of beads and another 12	2 beads. Bella tool	ds. Amy took $\frac{1}{5}$ of the total $\frac{1}{3}$ of the remaining beads	in the
	box and another 14 bear beads were there in the		last 26 beads in the box. F	low many

Ans: _

[4m]

12)					of land to grow		
	the re	emainder Ind was 2	to grow ma 240 m. Find	ngoes. He had the breadth of	5600 m ² of land the land.	d left. The	length o
	* 2	; .		· · · · · · · · · · · · · · · · · · ·			
					·		
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					Ans:		
					was a second	· · · · · · · · · · · · · · · · · · ·	
13)		ny is f cm Germain		ine is twice as	tall as Fenny. H	arriot is 2	4 cm sho
13)		Germain What is If Fenn	e. s the averag	ge height of the	tall as Fenny. H three girls in te difference betw	rms of ƒ?	
13)	than (a)	Germain What is If Fenn	e. s the averac ny is 75 cm t	ge height of the	three girls in te	rms of ƒ?	
13)	than (a)	Germain What is If Fenn	e. s the averac ny is 75 cm t	ge height of the	three girls in te	rms of ƒ?	
13)	than (a)	Germain What is If Fenn	e. s the averac ny is 75 cm t	ge height of the	three girls in te	rms of ƒ?	
13)	than (a) (b)	Germain What is If Fenn Fenny'	e. s the averag y is 75 cm t s height?	ge height of the all, what is the	three girls in te	rms of ƒ?	
13)	than (a) (b)	Germain What is If Fenn Fenny'	e. s the averag y is 75 cm t s height?	ge height of the all, what is the	three girls in te difference betw	rms of ƒ?	ot's and
13)	than (a) (b)	Germain What is If Fenn Fenny'	e. s the averag y is 75 cm t s height?	ge height of the all, what is the	three girls in te difference betw	rms of ƒ? een Harri	ot's and
13)	than (a) (b)	Germain What is If Fenn Fenny'	e. s the averag y is 75 cm t s height?	ge height of the all, what is the	three girls in te difference betw	rms of ƒ? een Harri	ot's and

14) The graph below shows Mr Abram's electricity consumption from September to February.



Months

- (a) What was the percentage increase decrease in electricity consumption from October to November?
- (b) If the national average consumption was 360 kWh, in which month was Mr Abram's consumption 75% of the national average?

Ans: (a) _____[2m]

Ans: (b) _____[2m]

15)	At a ballet school, 70% of the students were Singaporean students and the								
	rest were foreign students. 75% of the Singaporean students and $\frac{2}{3}$ of the foreign students were female. There were 1200 students at the school. How many more female than male students were there at the ballet school?								

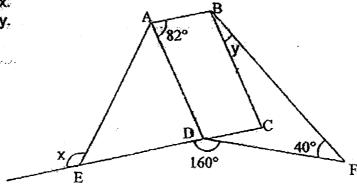
Ans:

[4m]

- In the diagram below, not drawn to scale, ABCD is a parallelogram. CDE is a straight line and AD = DE.

 (a) Find $\triangle x$. 16)

Find ∠y. (b)



[2m] Ans: (a) _____

[3m] Ans: (b) _____

A bus com late trip. La For every 2 time?	ast Octob	er, the	bus co	ompar	ny collect	ed \$16 3	80.		
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18)	When ten 20-cent of money returned into number of 50-cent	coins were taken or the box, the ratio coins was 7:10.	nd 50-cent coins in the it, exchanged for 50- of the number of 20-	cent coins and the
٠	Find the sum of mo	oney in the coin box		
				·.
		· .		
				·
	· ·			
·				
			Ans:	[5m]

- END OF PAPER 2 -

Tao Nan Schoool Primary 6 Mid-Year Examination 2015 Paper 1

3)3

4) 2

12) 4

5) 1

13) 3

6) 3

15) 4

14) 1

8) 1

9) 2 10)3 11) 2 16)18 & 36 17) 1/48 18) 54-63÷7+150+6x60 = 54-9+150+360 = 45+150+360 = 555 19) 0.15

1) 2

20) 2/5/12 21)13.6 22)

23) 20

2) 1

- 24) BC & DC 25) 17X5 = 8526) 3+4X1.50 = \$927)1/2X12X9 = 54 $54 \div 3 = 18$ 28) 100%-20% = 80% 80/100X250 = 200
- 7/100X200 = \$14
- 29) \$14f 30) 5-1 = 4 6/1 = 66x5 = 30 muttins

Paper 2

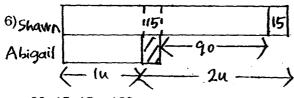
- 1) $(6x60)/90 \times 100\% = 400\%$
- 2) 180x60x2 = 21600
- 3) Unshaded X : Shaded area : Shaded Y

 8 : 3

 4 : 7

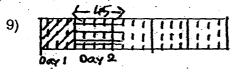
 32 : 12 : 21

 Ans: 12 : 53
- 4) 48-8 = 40 40-16 = 24 24÷2 = 12 years old
- 5) 50°+38° = 88° 35°+27° = 62° Angle a = 180°-62°-88° = 30°



90+15+15 = 120 120÷2 = 60 60+15+90 = \$165

- 7) 8g -- 2h 20g -- 20/8x2 = 5h 4 children -- 5 h 10 children -- 4/10x5 = 2h
- 8) 12x9 = 108 1/2x12x6 = 36 1/2x9x4 = 18 1/2x3x8 = 12 108-36-18-12 = 42



5u - 45 20u - 20/5x45 = 180

- 10) 7u -- 8 pails
 4u -- 4/7 x 8 = 32/7 = 4/4/7 pails
 4/4/7-4 = 4/7
 8+4/4/7 = 12/4/7
 4/7 pails -- 3 jugs
 12/4/7 pails -- 12/4/7÷4/7x3 = 66 jugs
- 11) 2u 14+26 = 40 40/2x3 = 60 4u -- 60+12 = 72 72÷4 = 18 18x5 = 90 beads
- 12) 8/15x5/8 = 1/3 3/8+1/3 = 17/24 24u-17u = 7u 7u --5600 24u -- 19200 19200÷240 = 80 m
- 13a) Total = f+2f+2f-24 = 5f-24 Average = (5f-24)/3 b) Difference = 2f-24-f = f-24 = 75-24 = 51 cm
- 14a) 330-250 = 80 80/250x100% = 32% increase
- b) 100% 360 75% – 75/100x360 = 270 Ans: December
- To 9. 30 % So For FIF M FIF M + Singaporean -> (Foreign)

17.5%x3 + 20% = 72.5% 72.5% - 27.5% = 45% 100% -- 1200 45% -- 45/100x1200 = 540 students

16a) Angle x = 180°-49° = 131° b) Angle ADC = 180°-82° = 98° Angle CDF = 360°-82°-160°-98° = 20° Angle y = 180°-20°-40°-98° = 22°

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17) 100% -- $60

90% -- 90/100X60 = $54

20-5 = 15

15 x $60 = $900

5 x $54 = $270

$900 + $270 = $1170

$16 380 ÷ $1 170 = 14

14 x 15 = 210 trips

18)

original

in the end

to get a difference of 6,
```

hence, original number of 20c coins = 14+10 = 24

24 x \$0.20 = \$4.80 16 x \$0.50 = \$8

\$4.80 + \$8 = \$12.80

original number of 50c coins = 20-4 = 16

20c: 50c difference

1u

3u

6u

3 : 2

7:10

14: 20