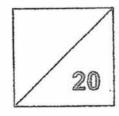


PRIMARY 6 MID-YEAR EXAMINATION 2017

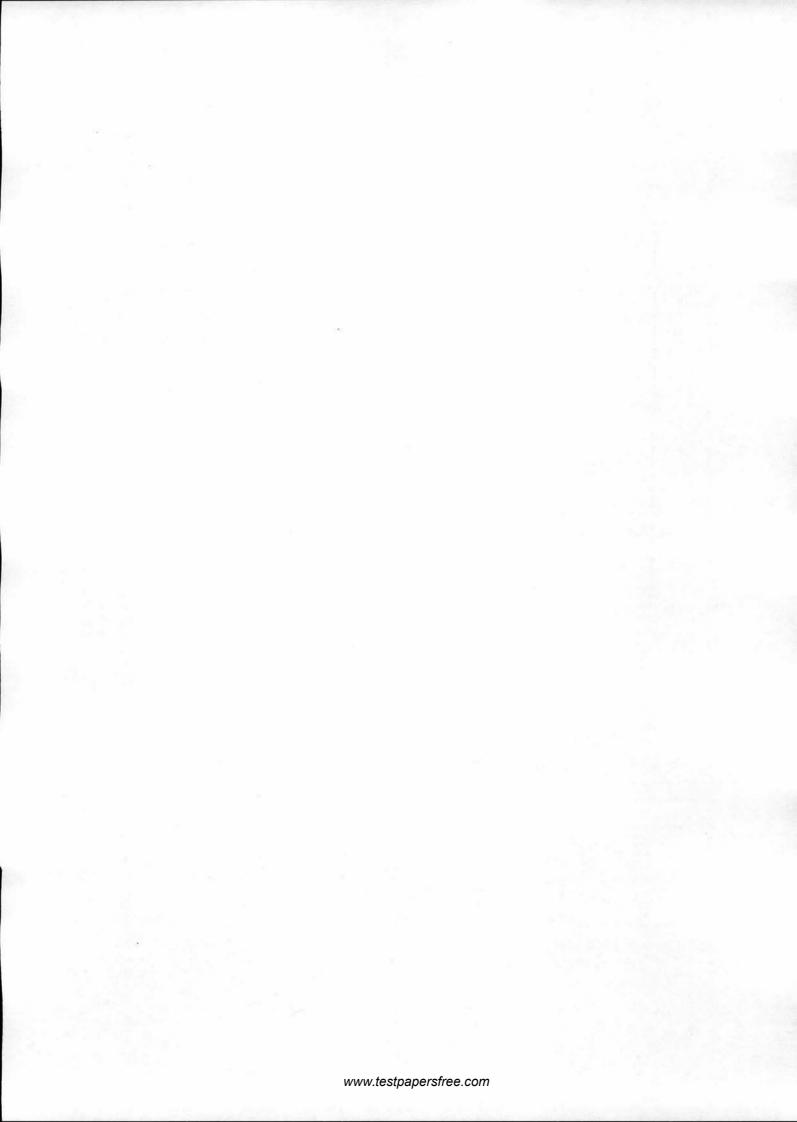
Name:		
Class:		
Parent's Signature:		

MATHEMATICS PAPER 1 (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.
- 3. Follow all instructions carefully.
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- 6. You are NOT allowed to use a calculator.

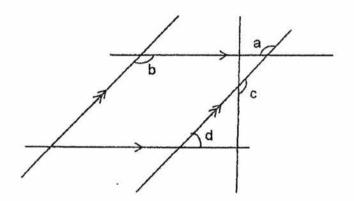


Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet.

(20 marks)

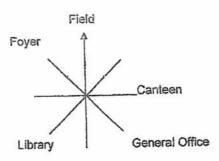
- Q1. Round 83 729 to the nearest thousand.
 - (1) 80 000
 - (2) 83 000
 - (3) 84 000
 - (4) 90 000
- Q2. Express $2\frac{5}{125}$ as a decimal.
 - (1) 2.004
 - (2) 2.040
 - (3) 2.400
 - (4) 24.000
- Q3. Which of the following is the same as 10 km 36 m?
 - (1) 1 036 m
 - (2) 1 360 m
 - (3) 10 036 m
 - (4) 10 360 m
- Q4. After spending 30% of his savings on a computer, Lionel still has \$2 100 left. How much did the computer cost?
 - (1) \$630
 - (2) \$900
 - (3) \$1 470
 - (4) \$3 000

- Q5. 300 people attended a concert. 60 were children. There was an equal number of men and women. What percentage of the people at the concert were men?
 - (1) 20%
 - (2) 40%
 - (3) 50%
 - (4) 80%
- Q6. Which two angles add up to 180°?



- (1) ∠a + ∠b
- (2) ∠a + ∠d
- (3) ∠b + ∠c
- (4) ∠c + ∠d
- Q7. What is the quotient when 93 is divided by 4?
 - (1) 1
 - (2) 23
 - (3) 93
 - (4) 4

Q8. Sulin was facing the field at first. She then turned 90° clockwise and made another 135° turn anti-clockwise. Where will she be facing now?



- (1) Foyer
- (2) Library
- (3) Canteen
- (4) General Office
- Q9. CLASSCLASSCLASS

What will be the 209th letter in the pattern above?

- (1) A
- (2) C
- (3) L
- (4) S
- Q10. Ahmad spent $\frac{1}{2}$ of his monthly allowance. He donated $\frac{3}{5}$ of the remainder to a charity and saved the rest. Find the ratio of the amount saved to the amount spent.
 - (1) 5:2
 - (2) 2:5
 - (3) 3:10
 - (4) 5:10

- Q11. Mr Lim bought 2 black markers and 8 red pens for \$15. A black marker cost \$1.50 more than a red pen. What was the cost of each red pen?

 (1) \$1.20
 - (2) \$1.50
 - (3) \$2.70
 - (4) \$4.00
- Q12. The average mass of Ali and Benny is 45 kg. Ali weighs 10 kg heavier than Benny. Find Benny's mass.
 - (1) 35 kg
 - (2) 40 kg
 - (3) 55 kg
 - (4) 80 kg
- Q13. $\frac{1}{3}$ of a class of pupils are girls. $\frac{1}{6}$ of the boys wear spectacles. There are 4 boys who wear spectacles. How many pupils are there in the class?
 - (1) 12
 - (2) 24
 - (3) 36
 - (4) 72
- Q14. How many fourths are there in $12\frac{3}{4}$?
 - (1) 16
 - (2) 32
 - (3) 45
 - (4) 5.1

Q15. Andy, Bala and Chartie shared \$840. Andy received 10% more than Bala while Charlie received 30% less than Bala. How much did Bala receive?

- (1) \$210
- (2) \$252
- (3) \$300
- (4) \$336

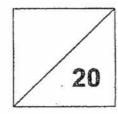


PRIMARY 6 MID-YEAR EXAMINATION 2017

Name:	
Class:	
Parent's Signature:	

MATHEMATICS PAPER 1

(BOOKLET B)



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.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Show your working clearly as marks are awarded for correct working.
- 6. You are NOT allowed to use a calculator.

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)

Q16. Find the value of 196 ÷ 25. Give your answer as a fraction in the simplest

Ans: _____

Q17. Find the value of $\frac{4}{5} \times (48 - 30 \times \frac{3}{5}) \div 2$.

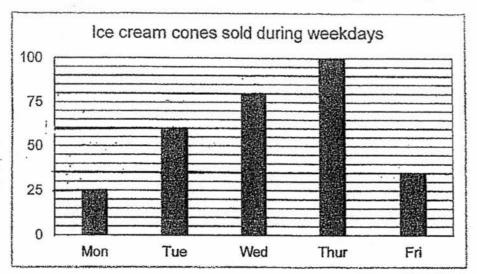
Ans: _____

Q18. What is the missing number in the box?

Apples: Oranges

Ans:

Q19. The graph shows the number of ice cream cones sold during the weekdays. Find the percentage of ice cream cones sold on Monday and Friday.



10 2 07070-0-0-0	140
Ans:	%
·	

Q20. The average mass of a pile of 12 books is 700 g. One book of mass 1300 g and another book of mass 1100 g were removed from the pile. What is the average mass of the remaining 10 books?

Ans:	
, 1110.	 &

Q21. The table below shows the mark ranges of P6 pupils for Mathematics.

Mathematics	100 to 91	90 to 85	84 to 75	74 to 65	64 to 50
Number of Pupils	29	153	86	74	31

How many pupils scored at least 75 marks?

Q22. Find the value of 57.25 x 8.

Ans:	

Q23. For a learning journey, 332 pupils and 18 teachers travelled to the Science Centre on buses. Each bus had a seating capacity of 40. What is the minimum number of buses required for the learning journey?

Q24.	For every 7 books th			
	will she get if she rea	iat Lydia reads, shi ids 56 books?	e gets 3 stickers. Ho	w many stickers
	147			
		2		
100				
	//a t		N 9	
			A	ns:
	total age be in 5 year		ſ	
	» °	* ,	Ans:	veare ok
		· · · · · · · · · · · · · · · · · · ·	Ans:	years old
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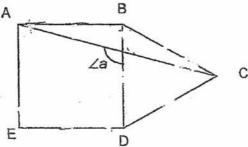
Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

Q26. The volume of a cube is 27 cm³. Find the total surface area of the cube.

Ans: ____ cm²

Q27. Given ABDE is a square, AC is a straight line and BCD is an equilateral triangle. Find ∠a.



Ans: _____

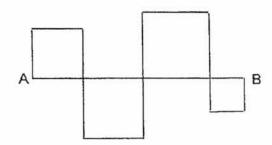
Q28. The bicycle rental rate at 'Rent & Cycle' is as shown below.

First hour	\$8
Every 1 hour or part thereof	\$7

Xiaoming rented a bicycle from 10.30 a.m. to 2.15 p.m. How much did he have to pay in total?

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

Q29. A wire of 100 cm is bent to form four squares as shown below. Find the length of AB.



Ans	•	cr
, ,,,,	·	

Q30.	Siti receives \$5 They both spendays would have	t \$3 each day	and saved	the rest of th	ne money. Ho	
					€	
	* %					
0	* %					
					Ans:	

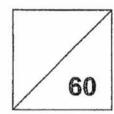
- FND OF BOOK! ET B.



PRIMARY 6 MID-YEAR EXAMINATION 2017

Name:		.(.	Date: 12 May 2017
Class: Primary 6 ()		Time: 10.00a.m 11.40a.m
Parent's Signature:			

MATHEMATICS PAPER 2



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.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Show your working clearly as marks are awarded for correct working.
- 6. 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 spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

 At a sale, the price of a pair of shoes was \$79 after a 20% discount. Find the price of the pair of shoes before the discount.

Ans: \$

2. Find the value of $\frac{48}{a} \times (9-a)$ when a = 3.

Ans: .

3. Alex had $5\frac{1}{4}\ell$ of water. He had $2\frac{3}{5}\ell$ of water left after watering 53 pots of plants. How much water did he use for each pot of plant? Ans: _____ ml 4. There were 18 lines drawn at equal intervals from one end to the other end of a corridor. The distance between the first three lines was 120 cm. What was the distance between the 5th line and the last line? Ans: ____ cm 5. Ahmad had 23 comic books more than Sam. When Sam gave Ahmad 8 comic books, Ahmad had 4 times as many comic books as Sam. How many comic books did Sam have at first?

question a	ons 6 to 18, show your working clearly in the space provided and write your answers in the spaces provided. The number a shown in brackets [] at the end of each question or part-question	of marks
	is 11 years old. His father will be 3 times as old as him in 8 y old is Bala's father now?	ears' time.
	e e	ŧ
	Ans:	[3]
has (a) l	number of \$10-notes Caili has is 40% of the number of \$2-notes. There are $6n$ more \$2-notes than \$10-notes. Express the number of \$10-notes in terms of n . How much money does Caili have in \$10-notes when $n = 7$?	tes that she
~		

Ans: (a) _____ [1]

Ans: (b) _____[2]

Use the information below to answer question 8.

4=	A	M	1	
Z				
				À
0				
	1 V V V			7
Lic	n's Jo	urne	y Mus	ical

Ticket Pr	cir	ng
VIP seats	:	S\$190
Premium seats	:	S\$170
Stall seats	:	S\$140
Circle seats	:	S\$110
Box seats	:	S\$100

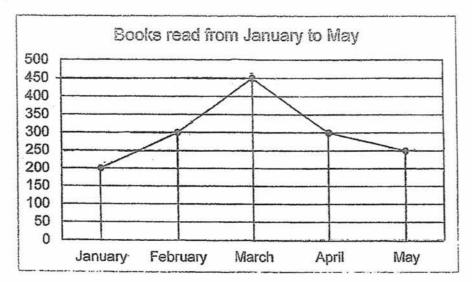
8. Jeff plans to take his 2 friends and 3 cousins to The Lion's Journey Musical. He has a budget of \$950 to spend for the musical. He wants to buy the VIP seats for his friends. What is the best type of seats he can get for himself and his cousins with the remaining money?

Ans:	[3]
MIIS.	101

9. Peter went to watch a movie at 2.25 p.m. The duration of the movie was 2 h 23 min. After the movie, Peter walked and reached home at 5.33 p.m. How long did Peter take to reach home?

Ans:_____[3

 The line graph shows the number of story books read by pupils from January to May.



- (a) What was the average number of books read in a month?
- (b) Find the percentage decrease in the number of story books read from March to April.

Ans: (a) _____[1]

Ans: (b) _____ [2]

11.	There are some fiction books and 1350 non-fiction books in a library. After
	increasing the number of non-fiction books by 20%, the ratio of fiction to
	non-fiction books is 1:4. How many fiction books must be added so that there
	will be an equal number of fiction and non-fiction books?

Ans:	[4]
1110.	 [-1

12. Mother bought a tin of milk powder. She used an equal amount of milk powder each day. At the end of the 15th day, ¹/₄ of the tin was left. At the end of the 18th day, the amount of milk powder left was 120 g. Find the amount of milk powder in the tin at first.

Ans: _____ [4]

13.	The average height of 5 pupils is 1,43 m. When Tina and Xiuli joined the group, the average height became 1.35 m. Tina is taller than Xiuli by 8 cm. (a) Find the average height of Tina and Xiuli. (b) Find Tina's height.		
0 280)[2]	

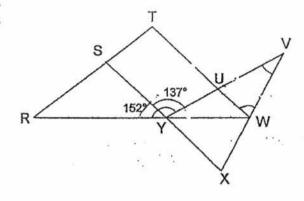
		6		-	
14.	on clothes.	After receiving	\$800 from her pa	on books and $\frac{3}{7}$ of the removents, she then had 40% oney did Amelia have at fire	more
			men i ion madii m	oney and ranena have at in	St:
					G.
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		*			A
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				7"	٠.
				ä	
				8 8	

Ans:

- 15. At a construction site, concrete is made by mixing water, cement and sand in the ratio 1:2:3.
 - (a) If 100 ℓ of water was used in the mbdure, what is the volume of concrete made? Leave your answer in cm^s.
 - (b) If all of the concrete is used to make a straight pavement of width 1 m and height 12 cm, how long would the pavement be?

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

- In the diagram below, TUW // SYX and VY = VX. ∠SYW = 137° and ∠RYV = 152°.
 - (a) Find ∠UVW. (b) Find ∠UWY.



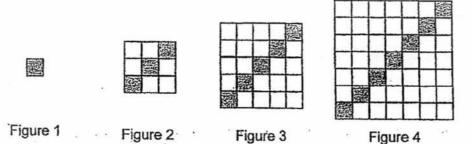
Ans: (a) ___

Ans: (b)

- 17. In Company X, the ratio of the number of women to the number of men is 3 : 1. In Company Y, the ratio of the number of women to the number of men is 2 : 1. The number of workers in Company X is ²/₃ the number of workers in Company Y.
 - (a) Find the ratio of the number of men in Company X to the number of men in Company Y.
 - (b) When 40 women left Company X to join Company Y, the ratio of the number of women to the number of men in Company Y became 51: 25. Find the number of women in Company Y now.

Aņs: (a)	[2]
Ans: (b)	[3]

18. The diagram below shows 4 figures formed by shaded and unshaded squares.



Complete the table.

Figure	Unshaded Squares	Shaded Squares
1	0	1
2	6	3
3	20	5
4	42	7
5	72	(a)[1]
6	(b)[1]	11

- (a) Find the number of shaded squares in Fig. 5.(b) Find the number of unshaded squares in Fig. 6.(c) How many unshaded squares are there in Fig. 20?

Ans:	(c)	[3]
	1	 101

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EXAM PAPER 2017

LEVEL : PRIMARY 6

SCHOOL : TAO NAN PRIMARY SCHOOL SUBJECT : MATHEMATICS (PAPER 1)

TERM : MID-YEAR

Paper 1 Booklet A

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

PAPER 1 BOOKLET B

Ans:
$$7\frac{21}{25}$$

Q17.
$$\frac{4}{5}$$
 X (48 - 18) ÷ 2
= $\frac{4}{5}$ X 30 ÷ 2
= 24 ÷ 2
= 12
Ans: 12

Ans: 40

Q19.
$$80 + 25 = 105$$

 $105 + 60 = 165$
 $165 + 100 = 265$
 $265 + 35 = 300$
 $\frac{60}{300} \times 100\% = 20\%$

- Ans: 20%

Q20.
$$700 \times 12 = 8400$$

 $1300 + 1100 = 2400$
 $8400 - 2400 = 6000$
 $6000 \div 10 = 600$

Ans: 600g

Q21.
$$153 + 29 = 182$$

 $182 + 86 = 268$

Ans: 268

Ans: 458

Q23.
$$332 + 18 = 350$$

 $350 \div 40 = 8.75 \approx 9$

Ans: 9 buses

Q24.
$$56 \div 7 = 8$$

8 X 3 = 24

Ans: 24 stickes

Q25.
$$(K+5) + (K-3+5)$$

= $(K+5) + (K+2)$
= $2K+7$

Ans: (2K + 7) years old

Ans: 54 cm2 .

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TAO NAU STY

Q27. \angle DBC = 60° \angle BCA \div \angle BAC = 180° - 90° - 60° = 30° \angle BCA = 30° \div 2° = 15° \angle BGC = 180° - 60° - 15° = 105° \angle BGC = \angle a

Ans: 1050

Q28. First hr 1hr 1hr 45min
10.30am 11.30am 12.30pm 1.30pm 2.15pm

8 + 7 + 7 = 2222 + 7 = 29

Ans: \$29

Q29. $100 \div 2 = 50$ $50 \div 2 = 25$

Ans: 25cm

Q30. \$5.40 - \$5 = \$0.40 \$6.00 ÷ \$0.40 = 15

Ans: 15 days

END OF BOOKLET B

The state of the s

PAPER 2 BOOKLET B

Q1.
$$79 \div 80 \times 100 = 98.75$$

Ans: \$98.75

Q2.
$$9-3=6$$

 $\frac{48}{3} \times \frac{6}{1} = \frac{96}{1}$
= 96

Ans: 96 .

Q3.
$$5\frac{1}{4}l = 5.25l$$

 $2\frac{3}{5}l = 2.60l$
 $5.25l - 2.60l = 0.05l$
 $0.05l = 50ml$

Ans: 50ml

Q4.
$$3-1=2$$

 $120 \div 2=60$
 $18-4=14$
 $14-1=13$
 $13 \times 60=780$

..... Ans: 780cm

Q5.
$$8 + 23 + 8 = 39$$

 $39 \div 3 = 13$
 $13 + 8 = 21$

Ans: 21 comic books

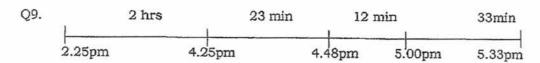
Ans: 49 years old

b)
$$10-4=6$$

 $6n+6=1n$
 $1n \times 4=4n$
 $n=7$
 $7 \times 4=28$
 $28 \times 10=280$

Ans: a) (4n) b) \$280

Ans: Stall seats



12min + 33 min = 45min

Ans: 45 min

Q10. a)
$$200 + 300 + 450 + 300 + 250 = 1500$$

 $1500 \div 5 = 300$
 $450 - 300 = 150$

b)
$$\frac{100}{450}$$
 X 100% = 33 $\frac{1}{3}$ %

Ans: a) 300 b) $33\frac{1}{3}\%$

Ans: 1215 books

Q12.
$$1 - \frac{1}{4} = \frac{3}{4}$$

 $= \frac{45}{60}$
 $\frac{45}{60} \div 15 = \frac{1}{20}$
 $18 - 15 = 3$
 $\frac{1}{20} \times 3 = \frac{3}{20}$
 $\frac{1}{4} - \frac{3}{20} = \frac{2}{20}$
 $= \frac{1}{10}$
 $1 \text{ whole} \longrightarrow 120 \times 10 = 1200$

Ans: 1200g

Q13. a)
$$5 \times 1.43 = 7.15$$

 $7 \times 1.35 \approx 9.45$
 $9.45 - 7.15 = 2.30$
 $2.30 \div 2 = 1.15$

Ans: \$800

Q15. a)
$$100l = 100000cm^3$$

 $100000cm^3 X (3 + 2 + 1) = 600000cm^3$

Q16.
$$\angle UYW = 180^{\circ} - 152^{\circ} = 28^{\circ}$$

 $\angle UWY = 180^{\circ} - 137^{\circ} = 43^{\circ}$
 $\angle YUW = 180^{\circ} - 28^{\circ} - 43^{\circ} = 109^{\circ}$
 $\angle VUW = 180^{\circ} - 109^{\circ} = 71^{\circ}$
 $\angle VUW = \angle VWU$
 $\angle UVW = 180^{\circ} - 71^{\circ} - 71^{\circ} = 38^{\circ}$

Ans: a) 38° b) 43°

Q17. a) Company X Company Y women: men women: men $3:1\rightarrow 4u$ $2:1\rightarrow 3u$ $4:2\rightarrow 6u$

Number of workers in company X Number of workers in company Y $= \frac{2}{3}$ $= \frac{4}{6}$

Number of men in company X : Number of men in company Y

1 : 2

b) Company Y
women: men
2:1
50:25
(40)
51:25

51u - 50u = 1u1u = 40

Number of women on company Y now = 51u = 51 X 40 = 2040

Ans: a) 1:2 b) 2040 women Q18. a) 7+2=9

bl

Figure	1	2	3	4	5	6
Unshaded square	0	6	20	42	72	110

6) (+14) (+22) (+30)

(+38)

c) 7+2=9 $10 \times 11 = 110$ 20-6=14 $14 \times 2 = 28$ 28+11=3939+38=1482

Ans: a) 9 b) 110 c) 1482

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