SA1		
	TRAINAI SCHOOL & AN \$725 SHULEPHY & PERSEVENTION	
<u>2021 PRIM</u>	ARY 6 MID-YEAR EXAMINATION	
Name:	( ) Date: <u>10 May 2021</u>	
Class: Primary 6 ( )	Time: <u>8,00 a.m 9.00 a.m.</u>	
Parent's Signature:	Marks: / 100	
per 1 comprises 2 bool		-
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	clets, A and B.	1
	clets, A and B. MATHEMATICS	
	Alets, A and B. MATHEMATICS PAPER 1 (BOOKLET A) 20	
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Der 1 comprises 2 book	Adets, A and B. MATHEMATICS PAPER 1 (BOOKLET A) 20 ANDIDATES class and register number. his page until you are told to do so.	
INSTRUCTIONS TO C. 1. Write your name, 2. Do not turn over th	Adets, A and B. MATHEMATICS PAPER 1 (BOOKLET A) 20 ANDIDATES class and register number. his page until you are told to do so. ons carefully.	
INSTRUCTIONS TO C. 1. Write your name, 2. Do not turn over th 3. Follow all instructi 4. Answer all question	Adets, A and B. MATHEMATICS PAPER 1 (BOOKLET A) 20 ANDIDATES class and register number. his page until you are told to do so. ons carefully.	

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		val (1, 2, 3 or 4) on the Optical Answer Sheet.	[20 marks]
1.	In 6.	015, what is the place value of the digit 0?	
	(1)	0	
	(2)	0.1	
	(3)	tenths	
	(4)	hundredsx	
2.	Find	the value of $6 + 18 + 3 \times 2 - 9$ .	
	(1)	15	
	(2)	9	
	(3)	7	
	(4)	0	
3.	Ahm Whic	ad has \$2 and Ben has \$4. h one of the following statements is incorrect?	
	(1)	The ratio of Ahmad's money to Ben's money is 2 : 1.	
	(2)	The ratio of Ahmad's money to Ben's money is 1 : 2.	
	(3)	The ratio of Ben's money to Ahmad's money is 2 : 1.	-
	(4)	The ratio of Ben's money to Ahmad's money is 4 : 2.	<i></i>
4.	Expr	ess 108 min in hours.	
	(1)	1 <mark>12</mark> h	
	(2)	$1\frac{4}{25}h$	
	(3)	$1\frac{2}{15}h$	
	(4)	1 <del>4</del> h	· •

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5,

Which one of the following pairs is the base and height of Triangle ABC?

Base	Height
AB	BC
AC	BD
AC	BC
AD	BD



£

6. Find the product of all the factors of 4.

- (1) 7
- (2) 8
- (3) 9
- (4) 16

7. What is the value of  $\angle a$  in the rhombus?



- (1) 46°
- (2) 90°
- (3) 92°
- (4) 136°

## 8. The table shows the amount of play time Eisha has for three days.

	Day 1	Day 2	Day 3	
Duration (hours)	0	2	4	

What is Eisha's average amount of play time for the three days?

- (1) 6 h
- (2) 2 h
- (3) 3 h
- (4) 4 h

9. The table shows the parking rates at a car park.

Time	Rate
1st hour	\$2.50
Every additional 15 min	\$0.50

Carol parked her car at the car park from 8.30 a.m. to 10.30 a.m. How much did she pay?

- (1) \$5.00
- (2) \$4.50
- (3) \$3.00
- (4) \$2.50

3

10. In the morning, Dawn started doing her homework at the time shown below.



She completed the work before noon.



How many  $\frac{1}{4}$  turns did the minute hand of the clock go through?

- (1) 10
- (2) 2
- (3) 3
- (4) 6

11.

0.25 of a number is 40. What is 80% of the number?

- (1) 10
- (2) 32
- (3) 128
- (4) 160

BP~497

12,

An object was moved South and then in the North-West direction. It ended at Point X. Where was the start point of the object?



N †

- (1) A
- (2) B
- (3) C
- (4) D

13. Hela paid for an eraser that cost k cents with a two-dollar note. How much change did she receive?

- (1) (2-k)
- (2)  $\$(2-\frac{k}{100})$
- (3) \$(200 k)
- (4)  $(200 \frac{k}{100})$

- 14. There were 12 chairs in each of the 15 rows in a hall.
  60 more chairs were brought into the hall.
  All the chairs were then rearranged equally into 20 rows.
  Which one of the following shows the correct way to find the number of chairs in each row?
  - (1) 12 × 15 + 60 + 20
  - (2) (12 × 15) + 60 + 20
  - (3) (12 × 15) ÷ (60 ÷ 20)
  - (4) (12 × 15 + 60) + 20

15. Which of the following views is incorrect?





# 2021 PRIMARY & MID-YEAR EXAMINATION

Name:		(	)	Date: <u>10 May 2021</u>
Class: Primary 6 (	)			Time: <u>8.00 a.m 9.00 a.m.</u>
Parent's Signature:	-		-	

Paper 1 comprises 2 booklets, A and B.



2

16.	Write 0.375 as a fraction in its simplest form.		
		Ans:	
17.	The average length of a dozen poles is 1 m. What is the total length of the poles?		
		Ans:	m
18.	Find the cost of 1.5 kg of grapes?		
	Special Offer Grapes Usual Price: \$13/kg Save: \$1.10/kg Now: 500 g for \$5.95		
		Ans: \$	
 19.	Express 1 m <sup>2</sup> in square centimetres.		
		Ans:	cm <sup>2</sup>
20.	Simplify 7y – 3 + 9y + 10 – 6y.		
		Ans:	<u> </u>
	6		

ł

1. U d	ise all the digits ivisible by 4.	below to	form the	smallest	7-digit	number ti	nat is	
	6	6, 0,	4, 2,	8, 1	, 7			
						Ans:		
2. W	/hat fraction of t	he square	e is shade	əd?		<u></u>	·····	
R.								
		41				Ans:	4	
3. Tł	ne table below s					club.	4	
3. Tł	ne table below s	Year	member 202 50	0	chess 202 4(	club.		
		Year embers	202 50	0	202 4(	club.	4	
	Number of m	Year embers	202 50	0	202 4( p.	club.	4	%

24. The figure is made up of a circle and a square. Find the unshaded area. Give your answer in terms of  $\pi$ .



2 cm

Ans: \_\_\_\_\_ cm<sup>2</sup>

25. In the square grid, join a dot to Line AB to form an acute angle,  $\angle ABC$ . Label and mark  $\angle ABC$  clearly.

A	 В	 	

The average score of a number of games played is 13.
 The sum of all the scores is 52.
 Find the number of games played.

Ans: \_\_\_\_\_

27.	Invinused $\frac{1}{4}$ of a 2-kg pack of flour to make some	cupcakes.	-	
	He then made some dough with $\frac{2}{5}$ of the remaining	g amount of	fflour.	
	How much flour was used to make the dough?			
		-		
	·			
		A		
		Ans:	·	kį
28.	The actual lengths of Rope X and Rope Y are in 2 When rounded to the nearest metre, their lengths What is the <i>greatest possible difference</i> between t and Rope Y?	are each 10		
28.	When rounded to the nearest metre, their lengths What is the greatest possible difference between t	are each 10		
28.	When rounded to the nearest metre, their lengths What is the greatest possible difference between t	are each 10		
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28.	When rounded to the nearest metre, their lengths What is the greatest possible difference between t and Rope Y?	are each 10 the lengths (		

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29. PQRS is a rectangle. The area of triangle QRS is 14 cm<sup>2</sup>. TSR is a straight line and PQ is 7 cm. Find the height of triangle PQT.





30. In the figure, EFGH is a rhombus. EHK is a straight line.  $\angle$ IHF = 30° and  $\angle$ JHK = 40°. Find  $\angle$ FGH.



Ans: \_\_\_\_\_\_

#### End of Booklet B End of Paper 1

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	TAO MAIN SCHOOL & AN §7 24			
2021 PRIMARY	6 MID-YEAR		ATION	
Name:	( )	Date: 10	May 2021	
Class: Primary 6 ( )			30 a.m 12 noo	1
Parent's Signature:				
MA	THEMAT	ICS		
	PAPER 2		55	
INSTRUCTIONS TO CANDI	DATE			
1. Write your name, class a				
2. Do not turn over this page	e until you are to	ld to do so.		
<ol> <li>Follow all instructions car</li> <li>Answer all questions.</li> </ol>	efully.			
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	V OD MARIA ANA -	warded for	Correct working	
5. Show your working clearl	y as marks are a calculator		er ing.	
	y as marks are a calculator.			
5. Show your working clearl	y as marks are a calculator.		, and the second s	

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Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. [10 marks]

Q1. The table shows the distance jogged by 3 students in a week.

Names	Distance (km)
Aini	4 <i>m</i> - 2
Bala	8
Caili	<i>m</i> + 3

- (a) Find the total distance jogged by Aini, Bala and Caili. Express your answer in terms of *m*.
- (b) If m = 4, find the total distance jogged by the 3 students.

Ans: (a) \_\_\_\_\_ km [1]

(b) \_\_\_\_\_ km [1]

Q2. Caili and Devi shared some stickers equally. After Caili gave Devi 15 stickers, the ratio of Caili's stickers to Devi's stickers became 3 : 4. Find the total number of stickers that Caili and Devi shared.

Ans: \_\_\_\_\_

• - •

2

Q3. Alan spent  $\frac{7}{10}$  of his allowance on food. He then spent half of his remaining allowance on some stationery items. He had \$3 left: How much was Alan's allowance?

Ans: \$

Ans: \_\_\_

cm

Q4. The following figure is made up of 2 squares.
 The *length* of each square is a *whole number*.
 The unshaded area is 132 cm<sup>2</sup>. Find the perimeter of the bigger square.



- 2 -

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Q5. Bala's house, his school, a market and a mall are located as shown in the square grid below.



- (a) In which direction is Bala's house from the Mall?
- (b) A new clinic is to be built at a location south-east of the School and south of the Market.

Put a  $(\checkmark)$  in the square where the new clinic will be built? [1]

Ans: (a) \_\_\_\_\_[1]

and an and a second second

For questions 6 to 17, show your working clearly 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]

Q6. Aini drinks 300 mt of orange juice every day. She found a special offer online as shown below.



What is the least amount of money Aini has to pay such that she can buy enough orange juice for 2 weeks?

Ans: [3] Q7. The usual price for two identical laptops was \$1 500 in Store A and \$1 250 in Store B. During a sale, both stores offered the same percentage discount for

the laptops. The discounted price for the laptop in Store B is \$200 cheaper than the discounted price for the laptop in Store A. What is the percentage discount given?

#### Ans: \_



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	Shape	Figure	Write down one property of the figure.
(a)	Isosceles triangle		
(b)	Rhombus		
(c)		D	

[3]

BP~510

- 5 -

Q9. In the figure below, not drawn to scale, ABC is an isosceles triangle and DEF is an equilateral triangle. BE is a straight line. Triangles ABC and DEF overlap to form triangle DOC. Find ∠AFD.

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ŧ



Ans: ∠AFD =

[3]

-6



Q10. An electronics store had a 4-day sale for 50 television sets. The following graph shows the number of television sets left unsold at the end of each day.

- (a) What was the total number of television sets sold by the store at the end of the 4-day sale?
- (b) On which day was the most number of television sets sold?

Ans:	(a)	·	[1]	

(b)	Day	[2]
-----	-----	-----

Q11. In a school,  $\frac{9}{20}$  of the members in a Reading Club are boys.

In the Comic Club, the number of girls is  $\frac{2}{3}$  of the number of boys.

There is an equal number of girls in both clubs.

There are 60 more members in the Comic Club than in the Reading Club.

(a) Express the number of girls in the Comic Club as a fraction of the total number of members in the Comic Club. Leave your answer in the simplest form.

(b) Find the number of girls in the Reading Club.

	Ans: (a)	[1]
	(b)	[3]
 - 8 -		

Q12. The figure is made up of a semicircle and two identical quarter circles. The diameter of the semicircle is 4 times the radius of the quarter circles. Find the perimeter of the figure. (Take  $\pi$  = 3.14)

<u>ж</u>.



18cm



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# Q13. Use the square grid to answer parts (a) to (d)



(d) Measure  $\angle BEC$ .

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Q14. Class A, B, C and D collected waste paper for recycling. Use the following information to answer the questions below.

(a) The amount of waste paper that Class A collected is 80% of what Class B had collected. Complete the bar for Class B.
 How much waste paper did Class B collect?

Ans: (a) \_\_\_\_\_ [2]

Each of the statements below is either true, false or not possible to tell from the information given.

For each statement, put a ticl	: (イ)	to indicate your answer.	[2]
--------------------------------	-------	--------------------------	-----

	Statement	True	False	Not Possible to Tell
(b)	Class C collected 45 kg of waste paper.			
(c)	When Class E joined the 4 classes, the average amount of waste paper collected becomes 45 kg.			

Q15. -

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Group	Number of Students	Average Amount Collected
Red	9	\$23
Blue	11	\$25
Green	8	\$24
Yellow	?	2

40 students in a class took part in a fund-raising event. The total amount collected by the four groups was \$1040. What was the average amount collected by students in the Yellow Group?

- 12 -

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Ans:

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[4]

Q16. A rectangular block, A, with a volume of 8 424 cm<sup>3</sup> was cut along the dotted line into 2 smaller blocks. Block B is a cube and Block C is a cuboid. The volume of Block B is 3 240 cm<sup>3</sup> more than Block C.



- (a) Find the length of Block B.
- (b) Find the height of Block C.



Q17. Shaded and unshaded circles form figures that follow a pattern. The first three figures are shown below.

Figure 1	Figure 2	Figure 3	Figure 4
•			

(a) Add circles to complete Figure 4 in the space above. [1]

## (b) Complete the table for Figure 6 and Figure 17. [2]

Fig	ure	Number of Shaded Circles	Number of Unshaded Circles
1		1	0
1	2	3	4
:	3	5	12
		-	-
e	;		60
7	,	13	84
•			-
1	7		<b>-561</b> 544

(c) Find the number of unshaded circles for Figure 20.

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Ans: (c)

[2]

- 14 -

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# **ANSWER KEY**

YEAR	:	2021
LEVEL	:	PRIMARY 6
SCHOOL	:	TAO NAN
SUBJECT	:	MATHEMATICS
TERM	:	MID-YEAR EXAM

### BOOKLET A (PAPER 1)

01	3	02	2	Q3			•		
			14	<u>u</u> >	1	Q4	4	Q5	2
<b>Q</b> 6	2	Q7	3	Q8	2	Q9	2	Q10	Δ.
Q11	3	Q12	1	Q13	2	Q14	4	Q15	1

### BOOKLET B (PAPER 1)

Q16	$\frac{0.375}{$	
017		
Q17	$12 \times 1 = 12 m$	
<b>Q18</b>	5.95 x 3 = \$17.85	·····
Q19	1m x 1m	
	100 x 100 = 10000cm2	
Q20	10y + 7	
Q21	1024768	
Q22	$\begin{array}{c} 6 \\ -3 \\ -8 \\ -4 \end{array}$	
Q23	50 - 40 = 10	·
	$\frac{10}{50}$ x 100% = 20%	
Q24	$2 \div 2 = 1$ (Radius of 0)	
	2 x 2 = 4 ( Area of square)	
	$\pi \times 1 \times 1 = \pi$	1
	$4 - \pi = (4 - \pi) \text{ cm}^2$	-
Q25	4	
	A B	
Q26	52 ÷ 13 = 4	
Q27	$\frac{3}{x}$ $\frac{1}{x}$ $\frac{3}{x}$ $\frac{3}$	
	-x = - $\frac{4}{5} = \frac{-}{10}$ 3 = -3	1
	$\frac{1}{10} \times 2 = \frac{1}{5} \text{ kg}$	

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Q28	10.49 – 9.50 = 0.99m	
Q29	$\frac{1}{2} \times 4 \times 7 = 14$	
	ANS : 4cm	
Q30	< EHI = 180° - 40° - 90° - 30° = 20°	
	< GFH = 20° + 30° = 50°	
	< FGH = 180° - 50° - 50° = 80°	

•

#### PAPER 2

Q1	a) (4m—2) +8 (+	m+3)=(5n	n+9)km
	b) 4(4) - 2 + 8 +		
Q2	Caili : Devi : Total		
-	1:1:2		
	7:7:14	μ.	
	7 - 6 = 1		
	15 ÷ 1 = 15		
	15 x 14 = 210		
Q3	$\frac{3}{10} \times \frac{1}{2} = \frac{3}{20}$		·
		2	
	$\frac{3}{20}$ of total money =		
	Total money = 3 x $\frac{2}{3}$	<u>.</u> 3	
	=\$20		
Q4	14 x 4 = 56cm		
Q5	a) North		
	b)		
Q6	OJ for 2 weeks = 30	$10 \times 14 = 4$	200
	1000 x 2 = 2000		
	4200 ÷ 2000 = 2R2	00	
	10 x 2 + 6.50 = \$26.	.50	
Q7	1500 - 1250 = 250		
	300 ÷ 1 <b>500 x</b> 100%	5 = 20%	
Q8	Shape	Figure	Write down one property of the figure
	a) isosceles	В	There are 2 angles in the triangle which
ł	triangle		are equal to each other.
	b) Rhombus	С	There are 2 pairs of parallel lines.
	c) Trapezium	D	There is a pair of parallel lines.

BP~523

		•	
Q9	< FED = < FDE = < DFE		
	=180 ° ÷ 3 = 60°		•
	< BAC = $<$ BCA		
	$=\frac{180^{\circ}-90^{\circ}}{2}=45^{\circ}$		
	< DOC = < FOA		
Q10	$< AFD = 180^{\circ} - 58^{\circ} - 75^{\circ} = 47^{\circ}$ a) 50 - 8 = 42		
QTD.			
	b) Day $1 = 50 - 42 = 8$		
	Day $2 = 42 - 29 = 13$	•	
	Day $3 = 29 - 17 = 12$		
	Day $4 = 17 - 8 = 9$		
011	ANS: DAY 2		
Q <b>1</b> 1	a) $\frac{22}{55} = \frac{2}{5}$		
	b) 33 – 18 = 15		
	60 ÷ 15 = 4		
	Girls = 4 x 22 = 88		
Q12	4 + 1 + 1 = 6	······································	
	Radius of 1 quarter circle = $18 \div 6 = 3$		
	Radius of semicircle		
	$3 \times 4 = 12$		
	$12 \div 2 = 6$		
	$\frac{1}{4}$ x 2 x 3.14 x 3 = 4.71		•
	1		
	$\frac{1}{2} \times 2 \times 3.14 \times 6 = 18.84$		
	4.71 + 3 + 18.84 + 3 + 4.71 + 18 = 52.26cm		
Q13			
	a)		
		•	
-			
	b) 5.5cm		
	d) 50°		
Q14	a) 80% of total = 40		
	100% of total = $\frac{40}{80}$ x 100 = 50kg		
		`	•

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	Stal	tement	True	False	Not possible to tell		
		b) Class C collected 45kg of waste paper.	$\checkmark$				
		c) When Class E joined the			√		
		4 classes, the average					
		amount of waste paper collected becomes 45kg					
Q15	40 - 9 - 11		<u> </u>				
	1040 - 207 - 275 - 192 = 366						
	366 ÷ 12 = \$30.50						
Q16	a) 8424 - 3240 = 5184						
		4 ÷ 2 = 2592					
		2 + 3240 = 5832					
	$\sqrt[3]{5832} = 18$ cm						
	b) 259	$2 \div 18 \div 18 = 8$ cm					
	1 10	0.6					
	a)						
	a)		Numl	ber of u	nshaded circles		
	a)		0	ber of u	nshaded circles		
	a) b) Figure	Number of shaded circles	0 4	ber of u	nshaded circles		
	a) b) Figure 1	Number of shaded circles	0	ber of u	nshaded circles		
	a) b) Figure 1 2	Number of shaded circles	0 4	ber of u	· · · · · · · · · · · · · · · · · · ·		
	•• •• •• •• •• •• •• •• •• ••	• • • • •         • • • •         • • • •         • • • •         • • • •         • • • •         • • • •         • • • •         • • • •         • • • •         • • • • •         • • • • •         • • • • •         • • • • •         • • • • • •         • • • • • • • • • • • • • • • • • • •	0 4 12 - -	ber of u	· · · · · · · · · · · · · · · · · · ·		
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	a) b) Figure 1 2 3 - (i)6	<ul> <li>••••</li> <li>•••••</li> <li>••••••</li> <li>•••••••</li> <li>•••••••</li> <li>•••••••</li> <li>•••••••••</li> <li>••••••••••••••••••</li> <li>••••••••••••••••••••••••••••••••••••</li></ul>	0 4 12 - - 60	ber of u	· · · · · · · · · · · · · · · · · · ·		
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