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METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



MID-YEAR EXAMINATION 2021 PRIMARY 6 MATHEMATICS

PAPER 1 BOOKLET A

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

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.

The use of calculators is NOT allowed.

Name: _____

Class: Primary 6.____

Date: 18 May 2021



This booklet consists of <u>7</u> printed pages including this page.

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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 (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

1	が Wha	$x \times 20 = 500.$ t is the value of $\int_{-\infty}^{1} ?$	
	(1)	250	
	(2)	100	
	(3)	30	
	(4)	25	
2	19.0	9 kg = kg g	
	(1)	1 kg 909 g	
	(2)	19 kg 9 g	
	(3)	19 kg 90 g	
	(4)	190 kg 9 g	
		•	·

3

Round off 2.834 to 2 decimal places.

- (1) 2.80
- (2) 2.83
- (3) 2.84
- (4) 2.90

(Go on to the next page)

- 4 Find the value of $\frac{4}{7} \frac{1}{3}$.
 - (1) $\frac{3}{4}$ (2) $\frac{3}{21}$ (3) $\frac{5}{21}$ (4) $\frac{5}{4}$

5 Arrange the following numbers from the smallest to the largest.

		8	8.7	8.07
(1)	8	8.07	8.7	
(2)	8.7 ⁻	8	8.07	
(3)	8.7	8.07	8	
(4)	8.07	8.7	8	

6

Which of the following would be the most likely mass of a laptop?

- (1) 20 g
 (2) 2 kg
 (3) 20 kg
- (4) 200 g



3

(Go on to the next page)

In the diagram, AB and CD are straight lines. Which of the following statement is true?



- (1) $\angle m = \angle n$
- (2) $\angle \rho = \angle q$
- (3) $\angle s = \angle p$
- (4) $\angle s = \angle r$

Esther brought $\frac{7}{9}$ of a pizza to school. She ate $\frac{3}{5}$ of it. How much of the pizza had she eaten?

(1) $\frac{5}{7}$ (2) $\frac{7}{15}$ (3) $\frac{2}{9}$

(4) $\frac{8}{45}$

(Go on to the next page)

8

7

9

Siti made some lemonade drink by mixing the lemonade syrup with water in the ratio 1 : 3. She made 12 litres of the lemonade drink. How much water did she use?

- (1) 92
- (2) 81
- (3) 3 ℓ
- (4) 4 l

10 The figure is made up of a semicircle and a quarter circle of radius 7 cm. Find the perimeter of the figure. (Take $\pi = \frac{22}{7}$)

- (1) 33 cm
- (2) 47 cm
- (3) 61 cm
- (4) 115.5 cm

(Go on to the next page)

- 11 The cost of a shirt was twice the cost of a pair of pants. The pair of pants cost \$*n*. Mr Samad bought 3 pairs of pants and a shirt. He gave the cashier \$100. Which of the following expressions shows the amount of change that Mr Samad received?
 - (1) \$(100 3n)
 - (2) (100 4n)
 - (3) \$(100 5*n*)
 - (4) \$(100 7n)
- 12 In the diagram below, ACD is an equilateral triangle. DCB is a straight line and BC = AC. Find \angle CAB.



- (1) 30°
- (2) 45°
- (3) 60°
- (4) 120°

6

13 During a sale, the price of a blouse was sold at \$40. This was 20% less than the usual selling price. What was the price of the blouse before the sale?

- (1) \$8
- (2) \$48
- (3) \$50
- (4) \$200
- 14 There were twice as many girls as boys in a Computer Club. After 15 girls left the club and 10 boys joined the club, there was an equal number of boys and girls in the club. How many girls and boys were there in the Computer Club at first?
 - (1) 15
 - (2) 25
 - (3) 50
 - (4) 75

Alice and Wei Ling shared the cost of a gift. Alice paid $\frac{2}{5}$ of the cost of the gift and an additional \$36. Wei Ling paid \$54. How much did the gift cost?

- (1) \$225
- (2) \$150
- (3) \$126
- (4) \$90

7

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MID-YEAR EXAMINATION 2021 PRIMARY 6 MATHEMATICS

PAPER 1 BOOKLET B

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

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.

The use of calculators is **NOT** allowed.

Name: _____(

Class: Primary 6.___

Date: 18 May 2021

	Paper 1 Booklet A	/ 20
. '''	Paper 1 Booklet B	/ 25
	Paper 2	/ 55
	TOTAL	/ 100

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Parent's Signature:

This booklet consists of 8 printed pages including this page.



BP~279







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METHODIST GIRLS' SCHOOL (PRIMARY)

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MID-YEAR EXAMINATION 2021 PRIMARY 6 MATHEMATICS

PAPER 2

Duration: 1h 30 min

INSTRUCTIONS TO CANDIDATES

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.

The use of an approved calculator is expected, where appropriate.

Name: _____(

Class: Primary 6.

Date: 18 May 2021

55

Parent's Signature:

This booklet consists of 13 printed pages including this page.

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vours	tions 1 to 5 carry 2 marks each. Show your working clearly and write answers in the spaces provided. For questions which require units, your answers in the units stated.	Do not write in this spac
1	The total cost of a book and pen is \$26. The cost of the pen is $\frac{1}{4}$ the cost of	
•	the book. What is the cost of the book?	
	Ans: \$	
2	Water drips from a tap at a rate of 6 mt per second into an empty bucket. How much water is collected in 1 hour? Give your answer in litres.	
	Ans:	
	2 (Go on to the next page)	

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13 Arjun folded a circular piece of paper into half as shown in Figure 1. The resulting shape in Figure 2 has a perimeter of 36 cm. He then folded the figure further into halves twice, until he obtained Figure 4.

Do not write in this space



_____ [4]

9

Ans:







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17	John drew a cube of sides 15 cm. He then drew another cuboid by increasing the length and height of the cube by 20%. What was the percentage increase in the volume of the new cuboid that he had d	<u>.</u>	Do not write In this space
			· ·
	·		
	A may		
	Ans:	[5]	
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	End of Paper		
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ANSWER KEY

YEAR	:	2021
LEVEL	. :	PRIMARY 6
SCHOOL		MGS
SUBJECT	:	MATHEMATICS
TERM		MID-YEAR EXAM

BOOKLET A (PAPER 1)

Q1	4	Q2	3	Q3	2	Q4	3	05	1
Q6	2	Q7	4	Q8	2	Q9	1	010	3
Q11	3	Q12	1	Q13	3	Q14	4	Q15	2

BOOKLET B (PAPER 1)

Q16	14cm – 1.5cm = 12.5cm	Q17	$\frac{7}{9} \div 3 = \frac{7}{9} \times \frac{1}{3} = \frac{7}{27}$	
Q18	$\frac{0.6}{100} = \frac{6}{1000} = 0.006$	Q19	M=105 - 58 = 47	
Q20		Q21	(d+3)cm+(d+3)cm+dc	m=(3d+6)cm
	< g → 212° ÷ 2 = 106°		(3d+6)cm=36cm	
	· · · · ·		(3d)cm=36cm-6cm=3(Dcm
000	24		D=30cm÷3 = 10cm	·····
QZZ	21u – 15u = 6u	Q23	1+3+1+3+1=9	•
	6u = \$24		24 ÷ 5 = 4R4	
	1u = \$24 ÷ 6 = \$4		9 x 4 = 36	
	21u = \$4 x 21 = \$84		1 + 3 + 1 + 3 = 8	, ·
	-	_	36 + 8 = 44	
Q24	530 ÷ \$8 = 3R6	Q25	16u – 7u = 9u	
	3 x 4 = 12		9u = \$45	
			1u = \$45 ÷ 9 = \$5	
			16u = \$5 x 16 = \$80	
Q26	20% x 40% = 8%	Q27	$1 \text{ SA} \rightarrow 7 \text{ x } 7 - \frac{1}{4} \text{ x } \frac{22}{7} \text{ x } 7$	x 7
	$100\% \rightarrow \frac{12}{8} \times 100\% = 150			~ /
	8		$=49 - \frac{1}{2} \times \frac{11}{7} \times 7 \times 7$	
			=49 - 38.5 = 10.5	
			$10.5 \times 4 = 42 \text{ cm} 2$	
Q28	5u → 60%	Q29	< XYZ=(180°-98°)=82°	
	1u → 60 ÷ 5 = 12		82° ÷2 = 41°	
	3u → 12 x 3 = 36%			
Q30	a) True			
	b) False			
	c) True			

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PAPER 2

PAPER	2		
Q1	5u = \$26	Q2	1 second → 6ml
	1u = \$26 ÷ 5 = \$5.20		3600 second→6mlx3600
	4u = \$5.20 x 4 = \$20.80		=21600mi = 21.6L
Q3	$1000g \div 250g = 4$	Q4	· a)
	40g x 4 = 160g		
			b) $\frac{1}{2}$ x 4cm x 4cm = 8cm2
		1	8 <i>cm</i> 2 x 2 = 16cm2
Q5	$\frac{3}{4}$ circle = $\frac{3}{4}$ x π x 10 x 10 = 75 π	Q6	Test $1 \rightarrow \frac{45}{60} \times 100\% = 75\%$
	Semicircle = $\frac{1}{2} \times \pi \times 7 \times 7 = 24.5 \pi$		Test 2 $\rightarrow \frac{63}{90}$ x 100% = 70%
	Total = 24.5 π + 75 π = 312.58		75% - 70% = 5%
	312.58 ≈312.6cm2		She did better in test 1 by 5%
Q7	1 cm p	Q8	36cm ÷ 2 = 18cm
	1 cm		$\frac{1}{2}$ x 18cm x 28cm = 252cm2
			252 cm2 – 100 cm2 = 152 cm2
			$\frac{1}{2} \times \pi \times r \times r = \frac{1}{2} \times 3.14 \times 18$ cm x
	R		2^{2} 18cm = 508.68cm2
			508.68cm2 - 100cm2
			=408.68cm2
			408.68cm2 + 152cm2
			=560.68cm2
Q9	152.5 x 6 = 915	Q10	100%-20%=80%
	915 - (3 x 5) = 900		20% → \$160
	$900 \div 6 = 150$		1% → \$160 ÷ 20 = \$8
	Number \rightarrow 150 – 10 = 140		80% → \$8 x 80 = \$640
			$$640 \times \frac{107}{100} = 684.80
Q11	a) <dch=180°-112°=68°< td=""><td>Q12</td><td>a) 29+37+26+38+30=160</td></dch=180°-112°=68°<>	Q12	a) 29+37+26+38+30=160
	b) $<$ EGF=180° -(110°+44°)=26°		$160 \div 5 = 32$
			b) 34.5 x 6 = 207
			207 - 160 = 47
Q13	36cm ÷ 2 = 18cm (A+2B)	Q14	1
413	19.5 cm x 2 = 39 cm (4A+2B)		b) pcm+3cm+3cm
	39cm - 18cm = 21cm		=pcm+6cm
	$21 \text{cm} \div 3 = 7$		=(p+6)cm
1	Circumference of Fig 1		c) 12cm÷4=3cm
	$=2 \times \pi \times r$		3cm+3cm=6cm
	$= 2 \times \frac{22}{2} \times 7$ cm = 44cm		6cmx3cm=180m2
	$= 2 \times \frac{1}{7} \times 7 \times 100 = 44000$	<u> </u>	

2

Q15	Boys : Girls	Q16	$2 \rightarrow 35$	
	2u : 5u		9	
	-20 :-30		$\left \begin{array}{c} \frac{2}{9} \rightarrow 35 \div 2 = \$1 \\ \end{array} \right $	7.50
	1p : 3p		$\left \frac{9}{9}\rightarrow 17.50 \times 9=\right $	\$157.50
	1p = 2u - 20		9	
	3p - 5u - 30			
	3 x (2u - 20) = 5u - 30			
	6u - 60 = 5u - 30			
	6u - 5u = 60 - 30			
	1u = 30			
	7u = 30 x 7 = 210			
Q17	Volume of cube \rightarrow 15 x 15 x 15			
	= 3375			
	$\frac{20}{100}$ x 15 = 3			
	15 + 3 = 18			
	Volume of cuboid \rightarrow 18 x 18 x 15			
	= 4860			
	Increase → 4860 – 3375 = 1485			
	Percentage→ $\frac{1485}{3375}$ x 100 = 44%			



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