## DENGAN KERJASAMA **PSLE STANDARD MATH**<sup>\*\*</sup> Yayasan MENDAKI

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Primary 6 Mathematics Paper 1 (Booklet A) INSTRUCTIONS TO CANDIDATES								
Write your Index No. in the boxes at the top right hand corner.     Do not turn over this page until you are told to do so.     Sollow all instructions carefully.     Answer all questions.     Shade your answers in the Optical Answer Sheet (OAS) provided.     The use of calculators is NOT allowed.								
Total Time for Booklets A & B: 50 minutes								
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, 4 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. Which o	one of t	he followin	g is the nea	rest to 20?				
(1) 1 (3) 2	19.091 20.019		(2) (4)	19.901 20.091				
2. Find the	e value	of 35 ÷ 5 7		(2)	20			
(3) 3	25 35			(4)	49			
<ol> <li>Mrs Lim poured 8-litres of cooking oil into several bottles, each with a capacity of 400ml each. How many bottles did she use?</li> </ol>								
(1) 2 (3) 4	20 40			(2) (4)	32 50			
<ol> <li>A test st "You have te</li> </ol>	tarted en min	at 8.30am. I utes left."	Duration of	the test is	$1\frac{3}{4}$ hours. The invig	jilator said,		
(1) 9 (3) 1	9.45 an 10.05 a	n m		(2) (4)	9.55 am 10.15 am			
5. A motorist travels 18y km in 2 hours. Travelling at this rate, how long will he take to complete a journey of 54y km?								
(1) 6 (3) 3	5 hours 3 hours			(2) (4)	5 hours 4 hours			
6. The total	l weigh	t of 3 boys i kg 200 g. V	s 129 kg 10 Vhat is the v	0 g. One bo	y weighs 42 kg 500 e third boy?	g and		
(1) 4	41 kg 2	00 g		(2)	41 kg 400 g 42 kg 400 g			
(3)     42 kg 200 g     (4)     42 kg 400 g       7. Ali has 32 stamps. Ben has half as many stamps as Ali but as many stamps as								
(1) 6	54	stamps uoe	s jusun nav	(2)	112			
<ul><li>(3) 1</li><li>8. The volu</li></ul>	128 me of a	tank is 2 5	60 cm . The	(4) perimeter	4 of its square base is	32 cm. What		
is the height	t of the	tank?		. (2)	40 cm			
(3) 1	10 cm			(4)	4 cm			
9. 20% of (1) 8		= 16. The mi	ssing numt	er in the bo (2)	120 cm			
(3) 1	160	mbuc Which	h one of the	(4)	320 cm			
(1) A	10. ABCD is a rhombus. Which one of the following is wrong?       A         (1)       AB = BC							
(2) A (3) A (4) A	AB = DO AD // E AD DC	: 8C				₿₩₩₽₽		
11. The figure is made up of a parallelogram and a triangle. Find $\angle x$ .								
(1) 4 (2) 5 (3) 7	48° 54° 72°			54	~	,		
(4) 7	78°				1	102		
12. The rati much heavi	io of Si ier is Si	ti's weight t ti than Ahm	o Ahmad's ad?	weight is 5:	3. If Siti's weight is	40 kg, how		
(1) 1 (3) 4	16 kg 48 kg			(2) (4)	24 kg 64 kg			
13. All 40 pupils from class 6A chose their favourite fruit. The table below shows their choices.								
Fruit No of Pupils	t s	Apple ?	Orange 3	Banana 9	Mango Grape 7 12	Pear 5		
What perce	ntage o	of the pupils	like apples	?				
(1) 9 (3) 1	90% 10%			(2) (4)	40% 4%			
14. Which	of the i	following til	es will tess	ellate?	$\wedge$			
(1) P (2) E (3) E (4) P	B and C B, C and A, B and	i only i D only i D only i D only			$ \bigvee_{B} _{C}$	JĘ		
15. The picture below shows a dart board. Keith threw 3 darts and all the 3 darts hit the board. Which one of the following is NOT likely to be her score?								
(1) 7 (2) 8 (3) 1 (4) 1	75 30 125 135					5))		
			PAPER 1,	(BOOKLET	в)			
INSTRUCTIONS TO CANDIDATES, (Total Time for Booklets A & B: 50 min)								
Write your Index No. in the boxes at the top right hand corner.     Z. Do not turn over this page until you are told to do so.     S. Follow all instructions carefully.     Answer all questions.     The use of calculators is NOT allowed.								

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 provided. For ques stated. (10 marks)

- 16. What is the missing number in the box?
- 6 000 × 32 = 6 000 × + 6 000 × 24
- 17. Find the value of (20 + 10 ÷ 5) 8 x 2.
- The figure below is not drawn to scale. PQRS is a rectangle. Find the value of ∠ b.

- 19. The figure consists of a square of side 7 cm and three-quarters of a circle with centre 0. Find its perimeter. (Take  $\pi = \frac{2}{27}$ ) Ľ١. 20. Find the value of  $2\frac{3}{5} + 1\frac{3}{4}$ . (Give your answer in its simplest form) 21. of  $\frac{3}{5}$  number is 15. What is the number? 22. What is the missing number in the box? 2.10 2.40 2.70 7 3.00 3.30 23. Mary had \$5. She bought 6 pencils which cost 25 cents each and a pen which cost 90 cents. How much money had she left? 24. Find the side of the cube which has a total surface area of 216 cm  $^2\,$ 25. Janice paid \$14 for a blouse after a 30% discount. What was the original price of the Questions 26 to 30 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) 26. David's height is  $\frac{2}{3}$  of Benson's height. The ratio of Benson's height to Bobby's height is 9: 7. Find the ratio of David's height to Bobby's height. 27. Weilong recorded the number of siblings his classmates have in the table below. How many of his classmates have at least 2 siblings? 
   Number of siblings
   0
   1

   Number of classmates
   4
   14
   2 3 4 7 2 A rectangular table can seat 6 people. How many such tables, placed end to end, are needed to form a long table for 18 people? 29. Each time a pencil was sharpened, it was shortened by 0.4 m. After it was sharpened 6 times, its length became 13.7 cm long. What was the original length of the pencil 30. Tim has 3 more 50-cent coins than 20-cent coins in his pocket. If the total amount of money he has is \$ 5.70, how many coins does he have altogether? MATHEMATICS, PAPER 2 INSTRUCTIONS TO CANDIDATES, (Time: 1 hour 40 min) LWrite your Index No. In the booses at the top right hand corner.
   LO not turn over this page until you are told to do so.
   Sollow all instructions carefully.
   Answer all questions.
   The use of an approved calculator is expected, where appropriate. Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in spaces provided. For questions which require units, give your answers in the units stated. (10 marks) 1. Twelve years ago, Susan was 3 times as old as her brother. Their total present age is 52 years. Find Susan's present age. 2. The graph shows the grades scored by a class of pupils in 4 subjects. (a) Which subject has twice as many A\* as Chinese?
  (b) What percentage of the pupils did not obtain an A\* in English? 22 28 24 25 24 □ A\* ■ A ■ B 3 A farmer has a square field with an area of 6400 m. He planted a tree at each of the fou corners of the field and some along the three sides of the field. Each tree is planted 20m away from the next. How many trees were planted? 4. Linda has 8y pencils. She gave z pencils to each of her five friends Express in terms of y and z the number of pencils Linda had left. If y = 3 and z = 4, find the number of pencils Linda had left. (a) Ъ 5. What is the missing number? D & & ? ☆ □ ☆ ▫ \* \* \* \* For questions 6 to 18, show your working clearly and write your answers in spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks) 6. A durian seller sold 40% of his durians in the afternoon and 60% of the remainder in the evening. If he had 48 durians left, how many durians did he have at first? [3m] 7. In the figure below, PRS, STU and QRTV are straight lines. Find ∠ PRQ. [3m] ۰Ľ The benches are arranged in rows. There are 8p rows with 3;
   (a) Express the total number of benches in terms of p in its:
   (b) If p = 5, how many benches are there altogether? [2m] ows. There are 8p rows with 3p benches in each row of benches in terms of p in its simplest form. [1m] 9. Adrian had some sweets to give his friends. If he gave each friend 5 sweets, he would have 6 sweets left. If he gave each of them 7 sweets, he would be short of 4 sweets. How many sweets did Adrian have? [3m] Henry, Peter and John shared a bag of marbles. Henry received <sup>2</sup>/<sub>5</sub> of the marbles. Peter and John shared the remainder in the ratio 5: 4. Henry received 27 marbles more than Peter. How many marbles were there in the bag? [3m] Mr Tan sold 630 stamps to James. He sold <sup>2</sup>/<sub>2</sub> of the remaining stamps to Muthu. Then he found that he was left with <sup>1</sup>/<sub>2</sub> of the stamps he had at first.
   (a) Find total number of stamps Mr Tan had at first, [3m]
   (b) How many stamps did Muthu buy? [1m]
  - 12. The ratio of the number of children to the number of adults at a concert was 9:8. The ratio of the number of men to the number of women at the concert was 3:4. Ther were 168 more women than men. (a) How many adults were there? [2m](b) How many people were there? [2m]
  - 13. A fruit seller had 75 apples and oranges. He sold  $\frac{3}{4}$  of the apples and of  $\frac{1}{29}$  oranges. Then he had 25 apples and oranges left. What was the ratio of the number of apples to the number of oranges at the beginning? [4m]
  - Johan gave 30% of his cards to Roslan. As a result, Roslan's cards increased by 40% while Johan had 126 pokemon cards left. How many cards did the two boys have altogether? [4m]
  - 15. A rectangular tank measures 30 cm long, 25 cm wide and 9 cm tall. It has a water level of 6 cm. (a) What fraction of the tank is filled with water? [1m]
  - (b) If water follows at the same time from tap A at a rate of 8 cm<sup>3</sup> per second and tap B at a rate of 2 cm<sup>3</sup> per second, how long does it take for the tank to be completely filled? Give your answer in minutes and seconds. [4m]
  - 16. Cyclist A and B started racing round a 600 m track at the same time. After 15 minutes, Cyclist A stopped and Cyclist B had cycled <sup>1</sup>/<sub>2</sub> of the distance completed by Cyclist A. If Cyclist A's average speed was 2 m/s faster than Cyclist B's average speed, how many rounds of the track had Cyclist A completed? [4m]

17. Th Th	e figure is made up of 8 regular hexagons with all sides equal. he perimeter of the figure is 104 cm. Find the area of the figure. [5m]
18 At	Jurong Fast MRT Station the ratio of men to women on the WFL train was
10. At 5:	3. At Dover MRT, $\frac{1}{4}$ of the men and some women alighted from the train. The tio of men to women then became 15: 8 At Oueenstown Station 30 men and
10 (a) Hor	0 women boarded the train and the ratio of the men to women became equal.
(b) Ho	w many women alighted from the train at the Dover station? [2m]
	Answer Key PAPER 1. BOOKLET A
1	. <u>3</u> 6. <u>2</u> 11. <u>1</u> <u>4</u> 7 <u>2</u> 12 <u>1</u>
3	1 8. 2 13. 3 3 9. 1 14. 3
5	. 1 10. 4 15. 4 BOOKLET B
16.	8 21. 25
17. 18.	6 22. 2.85 33° 23. \$2.60
19. 20.	47 24. 6 $4\frac{7}{25}$ 25. \$20
26.	6:7 David
	Benson Bobby
27. 28.	12 + 7 + 2 = 21 4
29.	0.4 × 6 = 2.4 cm 13.7 + 2.4 = 16.1 cm
30.	50-cents         20-cents         Total           9 × 50 = \$4.50         6 × 20 = \$1.20         \$5.70
	9 + 6 = 15 PAPER 2
1.	52 - 12 - 12 = 28
	4 units 28 1 unit 7
	3 units 21 21 + 12 = 33
2.	(a) Maths
	(b) 20 + 12 = 32 3240 × 100% = 80%
3.	1 side of field 80 m
	1 side of field 3 trees 12 52 (3 × 3) + 4 = 13 12 52
4.	(a) 8y-5z
	(b) $(8 \times 3) - (5 \times 4) = 4$
5.	9 + 4 + 4 = 17
6.	40100 × 60% = 24% (left) 24%
	1%2 100% 100 × 2 = 200
7.	$STR = 180^{\circ} - 110^{\circ} = 70^{\circ}$
	$SRT = 180^{\circ} - 90^{\circ} - 70^{\circ} = 20^{\circ}$ $PRQ = 20^{\circ}$
8.	(a) $8p \times 3p = 24p^2$
	(b) 8 × 5 × 3 × 5 = 600
9.	31 tiends given given 2 5 10 - 5 7 16 - 14 - 2 N0 2 N0
	5 5 <del>22</del> 7 31-35 4 Yee Herery
10.	1 unit 27 marbles
11.	(a) 7 units 630 stamps
	1 unit 630 ÷ 7 = 90 12 units 90 × 12 = 1080 stamps
	(b) 2 units 90 × 2 = 180 stamps -left Muthu James
12.	(a) 1 unit168 (b) 8 units1176 7 units 168 × 8 = 1176 1 unit 1176 ÷ 8 = 147
13.	17 units 147 × 17 = 2499 44 apples + 33 oranges 75 (1)
	14 apples + 23 oranges 25 (2) 44 apples + 83 oranges 100 (Multiply by 4) (3)
	(3) - (1) 53 oranges 25 13 oranges 5
	33 oranges 15 75 - 15 = 60
	Apples: Oranges 60: 15 4: 1
14.	Johan Roslan 70% 126 40% 54
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
15.	(a) Height of water : Height of tank
	6 : 9 2 : 3
(b) At	23 any one time, the rate will be 10 cm <sup>3</sup> /s
30 × 2!	$5 \times 9 = 6750 \text{ cm}^3$
10 cm <sup>2</sup> 6750 c	$\frac{1}{3}$ m <sup>3</sup> (1 ÷ 10) × 6750 = 675 s
	= 675 ÷ 60 = 11 min 15 s
16.	1s2m (15 × 60s)15 x 60 x 2 = 1800m
1- 44	4 distance 1800 m 4 distance 1800 × 4 = 7200 m
	7200 ÷ 600 = 12
17. 1	$3.6 \div 4 = 3.4 \text{ cm} \cdots$ Ht of 1 small triangle $04 \div 26 = 4 \text{ cm} \cdots$ length of 1 side of hexagon
(3	$14 \times 4$ ) ÷ 2 = 6.8 cm <sup>2</sup> ···· area of 1 small triangle 8 x 6 = 40.8 cm <sup>2</sup> ···· area of 1 hexagon
4	0.8 x 8 = 326.4 cm <sup>2</sup>
18. <sub>Jui</sub>	ung East Men Allekted
DG	Alighted
Qu	eenstown Women 100
	100 - 30 = 70 (M1)
(a)	7 units70 1 unit70 ÷ 7 = 10
	23 units 23 x 10 = 230 230 + 100 + 30 = 360
(b)	4 units 10 x 4 = 40

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