

YEAR : 2020
LEVEL : PRIMARY 6
SCHOOL : TEMASEK PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM : PRELIMINARY EXAMINATIONS

PAPER 1
BOOKLET A

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

BOOKLET B

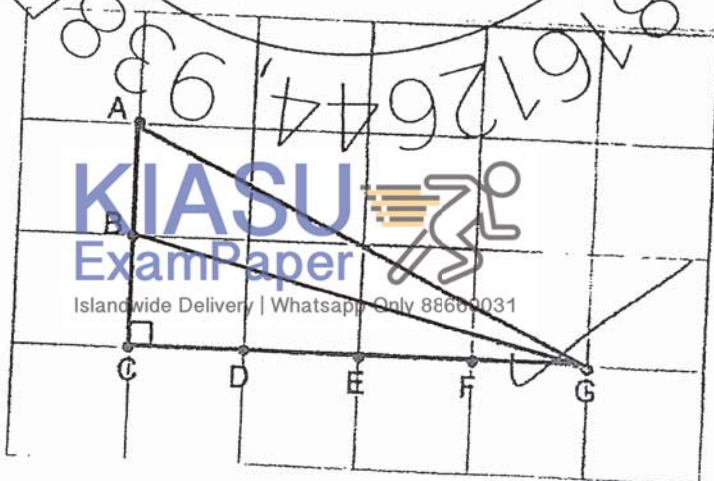
Q16. 13

Q17. 6.04

Q18. $1\frac{1}{6}, \frac{5}{4}, \frac{4}{3}$

Q19. 1:6

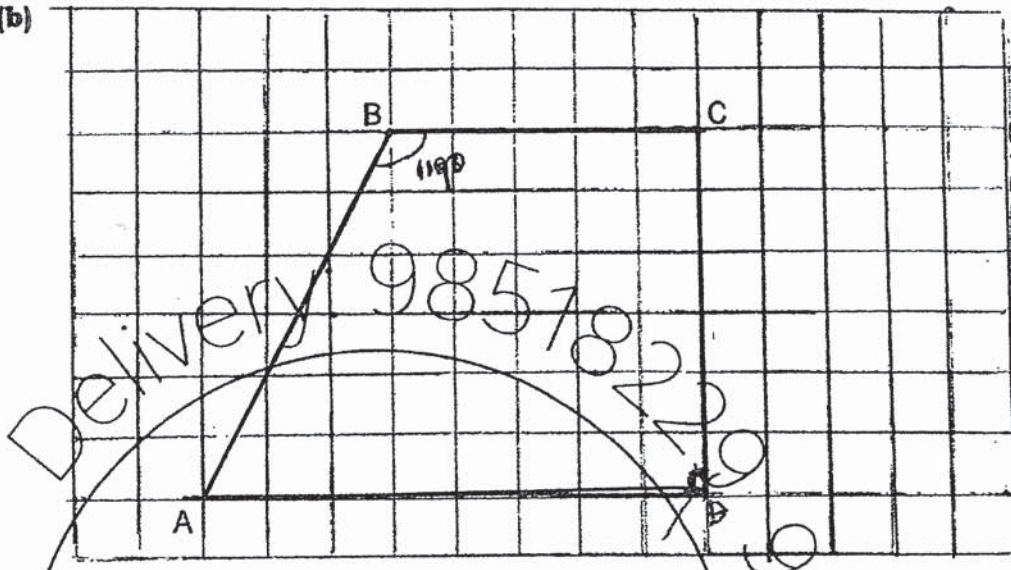
Q20.



Q21. 750 pages

Q22. (a) 119°

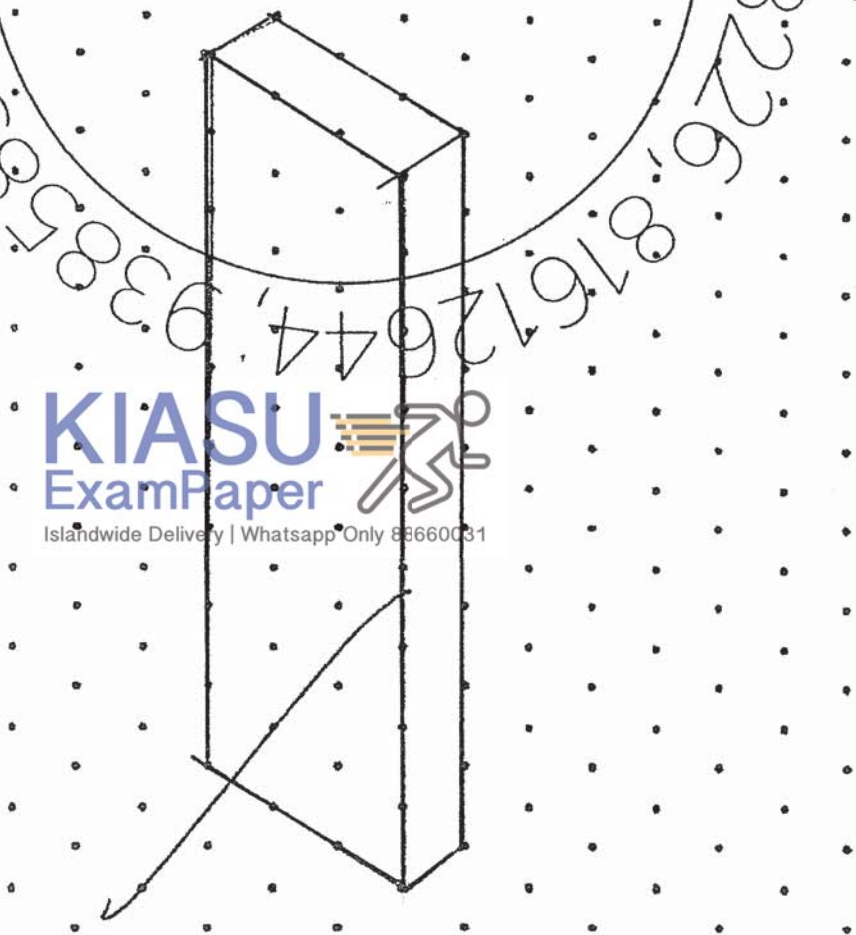
(b)



Q23. 3.5kg

Q24. 400 people

Q25.



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Q26. 3.2kg

Q27. True, False, True

Q28. 19 \$10 notes

Q29. $\frac{7}{15}$

Q30. 10:4:5

PAPER 2

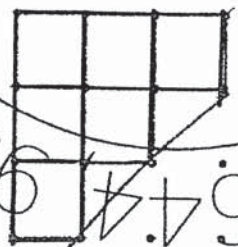
Q1. Total = $\$725 \times 4$
= $\$2900$

6C = $\$2900 - \$900 - \$800 - \700
= $\$500$

Q2. Breadth = $6g \div 3$
= $2g\text{cm}$

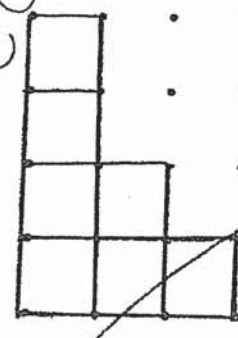
Perimeter = $(2g \times 2) + (5 \times 6)$
= $(4g + 30)\text{cm}$

Q3.



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Top View

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Front View

Q4. Distance between 2 big lanterns = $9 + 4 + 9$
= 22m

No. of big lanterns = $(1430 \div 22) + 1$
= 66

Q5. (a) Tile D

(b) Area of square = 4×16
= 64cm^2

Q6. (a) Let $u = \text{units}$,
 $6u - 2u = 4u$
 $4u = 68$
 $1u = 68 \div 4$
 $= 17$

No. of cakes at first = $2u$
 $= 17 \times 2$
 $= 34$

(b) Amt. collected = $34 \times \$26$
 $= \$884$

Q7. (a) $28 \div 6 = 4 \text{ r } 4$
Least amt. of money paid = $(4 \times \$10) + (4 \times \$2)$
 $= \$48$

(b) $36 \div 6 = 6$
 $6 - 1 = 5$
5 boxes = $5 \times \$10$
 $= \$50$
 $\$50 - \$48 = \$2$

Q8. (a) Cost for 3 hours = $3 \times \$8$
 $= \$24$
Amt. paid by each person = $\$24 \div 4$
 $= \$6$

(b) Amt. paid by each person = $(3 \times \$12) \div 4$
 $= \$9$
 $\$9 - \$6 = \$3$

Q9. (a) Cost = $(3 \times y) + [2 \times (y + 40)]$
 $= 3y + 2y + 80$
 $= (5y + 80) \text{cents}$

(b) Amt. of money Shernice has = $(5 \times 90) + 80 - 30$
 $= 500 \text{cents}$
 $= \$5$

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Q10. (a) $240 - 200 = 40$
Amt. paid for outgoing calls = 40×15
 $= 600 \text{cents}$
 $= \$6$

Amt. paid for data = $\$10$
Total amt. paid = $\$10 + \6
 $= \$16$

(b) Difference = $\$19.90 - \16
 $= \$3.90$

Q11. (a) Groups A and B

(b) Total no. of students = $25 + 35 + 20 + 55 + 40 + 30 + 60 + 35$
 $= 300$

$$\text{Fraction} = \frac{30}{300}$$
$$= \frac{1}{10}$$

Q12. (a) Volume of water = $\frac{4}{5} \times (50 \times 40 \times 30)$

$$= \frac{4}{5} \times 60000$$

$$= 48000 \text{ ml}$$

$$= 48 \text{ l}$$

(b) Volume of water = $\frac{1}{4} \times 60000$

$$= 15 \text{ l}$$

The tank was $\frac{1}{4}$ filled with water at 8 a.m.

Q13. At first,

Star-shaped : Heart-shaped

$$3 : 1$$

$$45 : 15$$

In the end,

Star-shaped : Heart-shaped

$$27 : 10$$

$$27u + 10u = 37u$$

$$37u = 111$$

$$u = 111 \div 37$$

$$= 3$$

No. of stickers bought = $45u + 15u$

$$= 60u$$

$$= 60 \times 3$$

$$= 180$$

Q14. (a)

$$\angle d = \frac{180^\circ - 90^\circ}{2}$$

$$\angle d = 45^\circ$$

$$\angle d = 45^\circ \div 2$$

$$= 22.5^\circ$$

(b) $\angle z = 90^\circ + 45^\circ$

$$= 135^\circ$$

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Q15. Amt. earned for the first \$800 = 10% × \$800
 = \$80

\$210 - \$80 = \$130

5% of remaining selling price = \$130

100% of the remaining selling price = \$130 × $\frac{100}{5}$ = \$2600

Price of laptop = \$2600 + \$800 = \$3400

Q16. (a) Area of ABC = $\frac{1}{4} \times 3.14 \times 10 \times 10$
 = 78.5cm²

(b) Area of A = $\frac{1}{2} \times 10 \times 10 = 50$

Area of small square = 5 × 5 = 25

Area of small quadrant = $\frac{1}{4} \times 3.14 \times 5 \times 5 = 19.625$

Area of AB = 25 - 19.625 = 5.375

Area of leaf = 78.5 - 50 = 28.5

Area of shaded part = 50 - 28.5 - 5.375 = 16.125cm²

Q17. a)

<u>Z</u>			<u>M</u>		
C	:	B	C	:	B
4u		1u	3u	:	1u

There were more chocolate cookies at first.

b) 1u = (3×5) + 3 = 18
8u = 18 × 8 = 144 cookies.

