2023 PRIMARY 6 COMMON-TIMED PRACTICE

Name: _____ ( ) Date: 10 May 2023

Class: Primary 6 ( ) Duration: 1 hour

Parent's Signature: _____ Marks: _____ / 100

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS
PAPER 1
(BOOKLET A)

20

INSTRUCTIONS TO CANDIDATES

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided.
6. You are **not** allowed to use a calculator.

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

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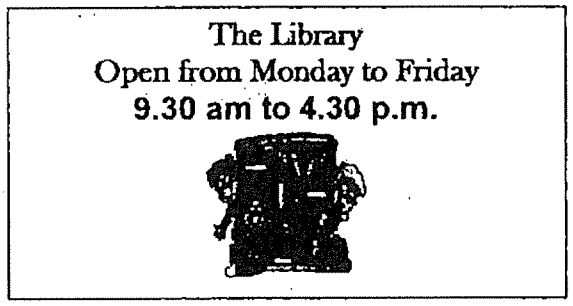
1. Round 4.728 to 2 decimal places.

   (1) 4.80
   (2) 4.73
   (3) 4.72
   (4) 4.70

2. In 924.53, what does the digit 5 stand for?

   (1) 5 tenths
   (2) 5 hundredths
   (3) 5 ones
   (4) 5 tens

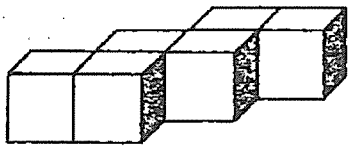
3. The opening hours of a school library are shown below. How long is the library open each day?



   (1) 6 h
   (2) 6 h 30 min
   (3) 7 h
   (4) 7 h 30 min

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4. The solid is made up of 2-cm cubes. Find its volume.



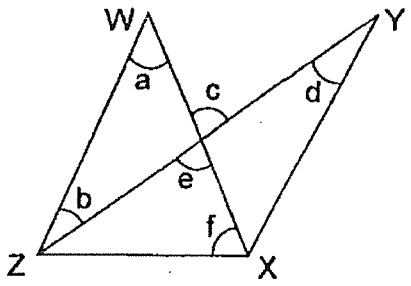
(1) 12 cm^3

(2) 24 cm^3

(3) 36 cm^3

(4) 48 cm^3

5. In the figure shown, WX and YZ are straight lines. Which of the two angles given in the figure are equal?



(1) ∠a and ∠f

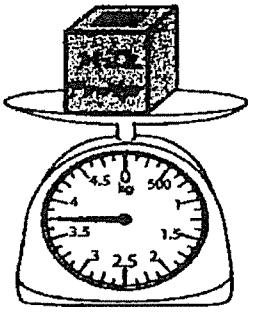
(2) ∠b and ∠d

(3) ∠c and ∠e

(4) ∠e and ∠f

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6. Find the mass of the packet of milk powder.



(1) 3.7 kg

(2) 3.8 kg

(3) 3.65 kg

(4) 3.75 kg

7. Which of the following figures completes the other symmetrical half of the figure?

W		
	H	
		A
	T	

(1)

		W
	H	
A		
	T	

(2)

W		
	H	
		A
	T	

(3)

W		
	H	
		A
	T	

(4)

		W
	H	
A		
	T	

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8. In a bus of 40 passengers, 24 are women. What is the ratio of the number of men to the number of women?

(1) 2 : 3

(2) 2 : 5

(3) 3 : 2

(4) 3 : 5

9. Ben received $120 a month. He spends $80 and saves the remainder. What fraction of his expenditure is his savings?

(1) $\frac{2}{3}$

(2) $\frac{1}{2}$

(3) $\frac{2}{5}$

(4) $\frac{1}{3}$

10. Express 2.5 as a percentage.

(1) 2.5%

(2) 25%

(3) 250%

(4) 2500%

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11. How much will Mary have to pay for 4 slices of cake during the sale?

SALE!!
20% off from the 3rd slice of cake onwards!



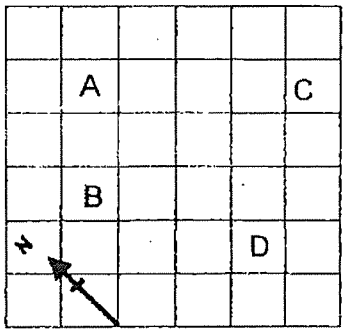
Usual price: $3.50 per slice

(1) $14
(2) $12.60
(3) $11.90
(4) $8.40

12. Michael bought h twenty-cent stamps and 5 fifty-cent stamps. How much did he spend on the stamps? Give your answer in terms of h.

(1) $\$(20h + 250)$
(2) $\$270h$
(3) $\$\frac{270h}{100}$
(4) $\$\frac{20h+250}{100}$

13. In the diagram, A, B, C and D are four points on the ground.
In what direction is C from A?



(1) East
(2) South
(3) South-East
(4) South-West

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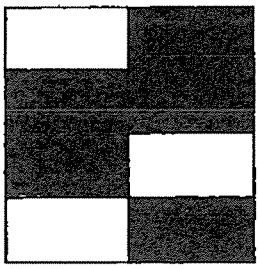
14. Study the pattern carefully.

P Q R S P P Q Q R R S S P P P Q Q Q R R R S S S ...

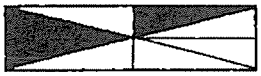
What is the 105th letter?

(1) P
(2) Q
(3) R
(4) S

15. The ratio of the area of square to the area of rectangle is 4 : 1.
Find the ratio of the total shaded area of the square and the rectangle to the total area of the square.



Square



Rectangle

(1) 12 : 16
(2) 13 : 20
(3) 18 : 25
(4) 23 : 32

End of Booklet A

Go on to Booklet B

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2023 PRIMARY 6 COMMON-TIMED PRACTICE

Name: _____ ( ) Date: 10 May 2023

Class: Primary 6 ( )

Parent's Signature: _____

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS
PAPER 1
(BOOKLET B)

25

INSTRUCTIONS TO CANDIDATES

1. Write your name, class and register number.
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 workings clearly as marks are awarded for correct working.
6. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
7. Do not use correction tape or highlighters for your solutions.
8. You are **not** allowed to use a calculator.

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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. (5 marks)

16. Write down all the common multiples of 6 and 9 that is less than 40.

Ans: _____

17. Find the value of $\frac{3}{4} \div 36$

Give your answer as a fraction in the simplest form.

Ans: _____

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18. What is the value of $54 - 63 \div 7 + 150 \div 6 \times 60$?

Ans: _____

---

19. Express $\frac{3}{20}$ as a decimal

Ans: _____

---

20. Find the value of $2 - 1\frac{1}{3} + 2\frac{3}{4}$

Give your answer as a fraction in the simplest form.

Ans: _____

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Questions **21** 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. (20 marks)

21. The average of 3 consecutive even numbers is 12. What is the smallest number?

Ans: _____

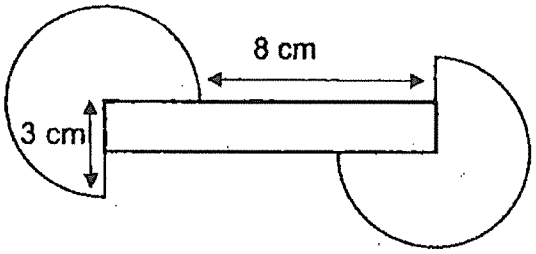
22. Abel wrote the numbers 1 to 99 on cards for game. How many times did he write the digit 9?

Ans: _____

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23. The figure is made up a rectangle and two $\frac{3}{4}$ circles. The radius of the circle is twice the width of the rectangle. Find the perimeter of the figure.

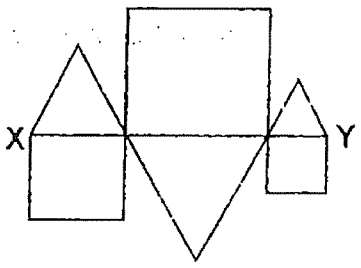
(Take π = 3.14)



Ans: _____cm

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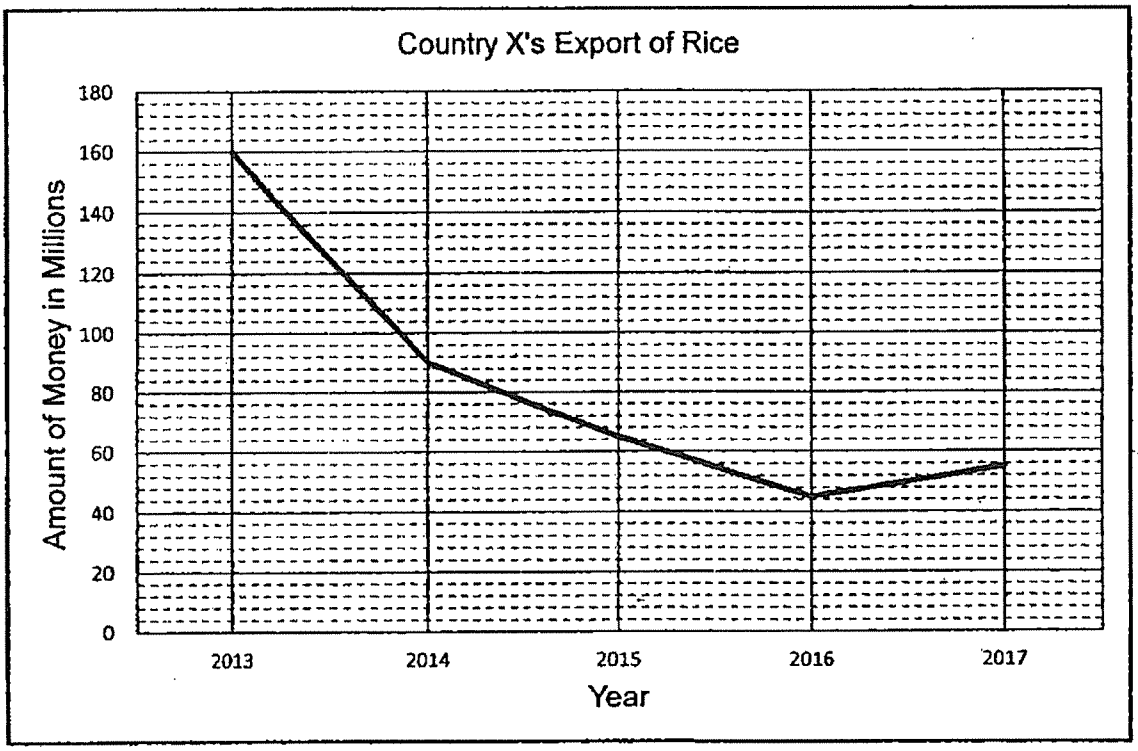
24. The figure below is formed using 3 squares and 3 equilateral triangles. The length of the straight line XY is 17 cm. Find the perimeter of the figure.



Ans: _____cm

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25. The line graph shows Country X's export of rice to Singapore for the past 5 years.



(a) What is the value of Country X's export of rice in Year 2017?

Ans: _____ million dollars

(b) During which 1-year period was the decrease in the value of rice export the smallest?

Ans: Year _____ to Year _____

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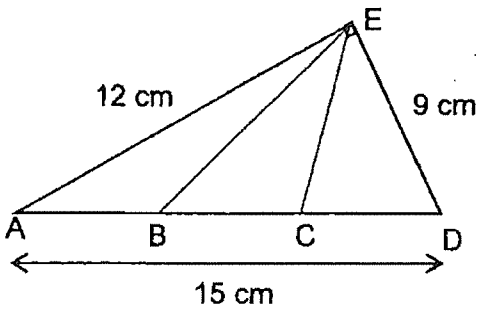
26. Keith parked his car for 4 hours and 15 minutes. How much did he have to pay for carpark charges?

Rate	Parking fees
First ½ hour	$3.00
Each subsequent 1 hour or part thereof	$1.50

Ans: $_____

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27. The figure shows a right-angled triangle, ADE. AB = BC = CD. What is the area of triangle EBC?



Ans: _____ cm^2

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28. Kumar bought a watch at a discount of 20%. Its usual price was $250 before GST. Find the 8% GST of the discounted price.

Ans: $_____

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29. Paula had 12 bookmarks. She sold 3 of them at 5f$ and the rest at $\$f$ each. How much did she collect in terms of f?

Ans: $_____

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30. Mrs Tan baked some muffins. If she gives 4 to each of her pupils, she will have 6 muffins remaining. If she gives 5 muffins to each of her pupils, there is no remainder. How many muffins did Mrs Tan bake?

Ans: _____

End of Booklet B

End of Paper 1

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2023 PRIMARY 6 COMMON-TIMED PRACTICE

Name:_____( ) Date: 10 May 2023

Class: Primary 6 ( ) Duration: 1 hour 30 minutes

Parent's Signature: _____

MATHEMATICS

PAPER 2

55

INSTRUCTIONS TO CANDIDATES

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
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6. Use a dark blue or black ballpoint pen to write your answers in thespace provided for each question.
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8. You are allowed to use a calculator.

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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)

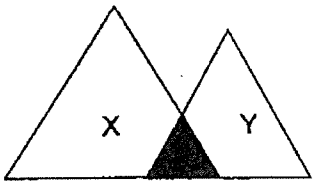
1. Express 6h as a percentage of 90 min.

Ans: _____%

2. A wooden plank is 1.8 m long, 0.6 m wide and 2 cm thick. What is its volume?

Ans: _____cm^3

3. The figure below is made up of 2 overlapping triangles, X and Y. The ratio of the shaded area to the area of Triangle X is 3 : 11 . The ratio of the shaded area to the area of Triangle Y is 4 : 11.
What is the ratio of the shaded area to the total unshaded area of the figure?



Ans:_____

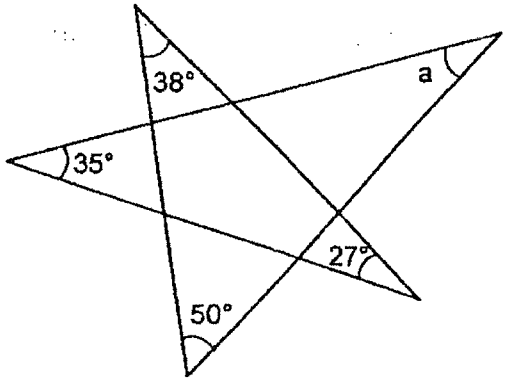
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4. Renny is 16 years younger than her cousin. In 4 years' time, their total age will be 48 years. How old is Renny now?

Ans: _____ years old

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5. The figure, not drawn to scale, is formed using five straight lines. Find ∠a.



Ans: _____ °

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For questions **6** to **17**, show your working clearly in the space provided for each question 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)

6. Shawn had $90 more than Abigail. If Abigail gave Shawn $15, Shawn would have thrice as much money as Abigail. How much money did Shawn have at first?

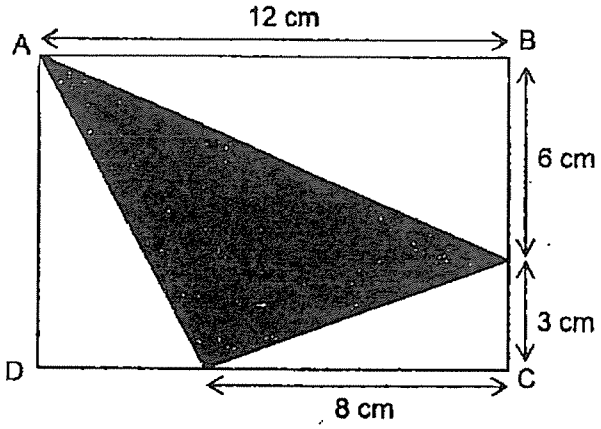
Ans: _____ [3]

7. Four children take 2h to wrap 8 gift boxes. How long will it take 10 children to wrap 20 boxes?

Ans: _____ [3]

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8. In the figure below, ABCD is a rectangle. Find the area of the shaded part.



Ans: _____[3]

---

9. Rachel needs to make some wrist bands for a fund-raising event.
She made $\frac{1}{5}$ of the wrist bands on the first day and 45 on the second day.
The number of wrist bands that she made on the second day was $\frac{1}{4}$ more than the number of wrist bands she made on the first day. How many wrist bands does Rachel need to make for the fund-raising event?

Ans: _____[3]

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10. 8 pails of water can fill $\frac{7}{11}$ of a tank. Another 4 pails and 3 jugs are needed to fill the tank completely. How many jugs of water can the tank hold?

Ans: _____[3]

---

11. Amelia, Beth and Candy shared a box of beads. Amelia took $\frac{1}{5}$ of the total number of beads and another 12 beads. Beth took $\frac{1}{3}$ of the remaining beads in the box and another 14 beads. Candy took the last 26 beads in the box. How many beads were there in the box at first?

Ans: _____[4]

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12. Farmer Tan used $\frac{3}{8}$ of a rectangular piece of land to grow bananas and $\frac{8}{15}$ of the remainder to grow mangoes. He had 5600 m^2 of land left. The length of the land was 240 m. Find the breadth of the land.

Ans:_____[4]

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13. Faith is f cm tall. Gerry is twice as tall as Faith. Helen is 24 cm shorter than Gerry.

(a) What is the average height of the three girls in terms of f?

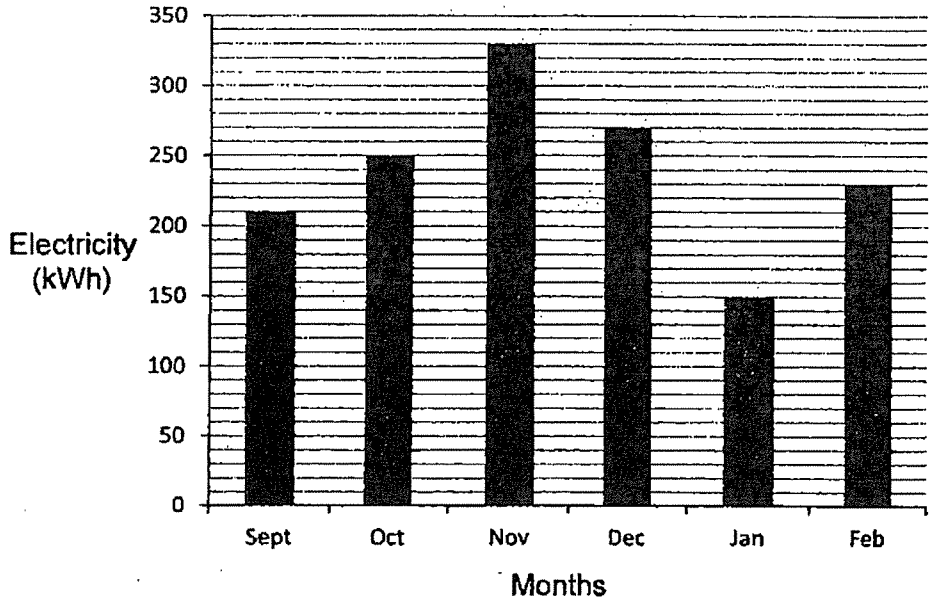
Ans:_____[2]

(b) If Faith is 75 cm tall, what is the difference between Helen's and Faith's height?

Ans:_____[2]

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14. The graph below shows Mr Abram's electricity consumption from September to February.



(a) What was the percentage increase/decrease in electricity consumption from October to November?

Ans: (a)_____[2]

(b) If the national average consumption was 360 kWh, in which month was Mr Abram's consumption 75% of the national average?

Ans: (b)_____[2]

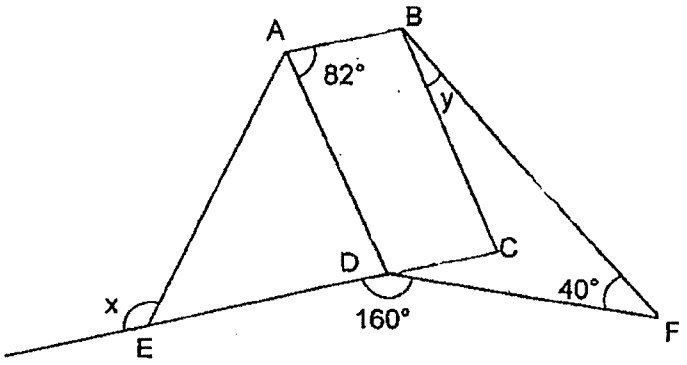
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15. At a ballet school, 70% of the students were Singaporean students and the rest were foreign students. 75% of the Singaporean students and $\frac{2}{3}$ of the foreign students were female. There were 1200 students at the school. How many more female than male students were there at the ballet school?

Ans:_____[4]

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16. In the diagram below, not drawn to scale, ABCD is a parallelogram. CDE is a straight line and AD = DE.



(a) Find ∠x.

Ans: (a) _____ [2m]

(b) Find ∠y.

Ans: (b) _____ [3m]

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17. A coin box contained 20-cent coins and 50-cent coins in the ratio 3 : 2. When ten 20-cent coins were taken out, exchanged for 50-cent coins and the money returned into the box, the ratio of the number of 20-cent coins to the number of 50-cent coins was 7 : 10.
Find the sum of money in the coin box.

Ans: _____ [5]

End of Paper 2

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SCHOOL: TAO NAN SCHOOL

SUBJECT: MATHEMATICS

LEVEL: PRIMARY 6

PAPER: 2023 COMMON-TIMED PRACTICE

PAPER 1

BOOKLET A

2	1	3	4	3	4	1	1	2	3
2	4	3	3	4					

BOOKLET B

Q16. 18, 36

Q17. $\frac{1}{48}$

Q18. 555

Q19. 0.15

Q20. $3\frac{5}{12}$

Q21. 10

Q22. 20

Q23. 47.26cm

Q24. 85cm

Q25. (a) 56 million dollars

(b) Year 2015 to Year 2016

Q26. $9

Q27. $18cm^2$

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Q28. $16

Q29. $(14f)

Q30. 30 muffins

PAPER 2

Q1. 6h = 360min

$$\frac{360}{90} \times 100 = 400\%$$

Ans: 400%

Q2. $180 \times 60 \times 2 = 21600$

Ans: 21600cm^2

Q3. S:X S:Y

3:11 4:11

12:44 12:33

$33 - 12 = 21$

$44 - 12 = 32$

$21 + 32 = 53$

Ans: 12:53

Q4. $48 - 4 - 4 = 40$

$40 - 16 = 24$

$24 \div 2 = 12$

Ans: 12 years old

Q5. $38° + 50° = 88°$

$88° + 27° = 115°$

$180° - 115° - 35° = 30°$

Ans: 30°

Q6. $\$90 + \$15\$ + \$15 = \$120$

2 units → $120

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1 unit → $60

3 units → $180

$\$180 - \$15 = \$165$

Ans: $165

Q7. 4 children → 2h → 8 gifts

4 children → 1h → 4 gifts

1 child → 1h → 1 gift

10 children → 1h → 10 gifts

10 children → 2h → 20 gifts

Ans: 2h

Q8. $\frac{1}{2} \times 9 \times 4 = 18\text{cm}^2$

$\frac{1}{2} \times 8 \times 3 = 12\text{cm}^2$

$\frac{1}{2} \times 12 \times 6 = 36\text{cm}^2$

$12 \times 9 = 108\text{cm}^2$

$108 - (18 + 12 + 36) = 42\text{cm}^2$

Ans: 42cm^2

Q9. 5 units → 45

1 unit → 9

20 units → 180

Ans: 180 wrist bands

Q10. 7 units → 8 pails

3.5 units → 4 pails

4 units → 4 pails + 3 jugs

0.5 units → (4 pails + 3 jugs) - 4 pails = 3 jugs

1 unit → 6 jugs

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11 units → 66 jugs

Ans: 66 jugs

Q11. 14 + 26 = 40

2 units → 40

1 unit → 20

3 units → 60

60 + 12 = 72

4 parts → 72

1 part → 18

Ans: 18 beads

Q12. $\frac{7}{24} \times 240 = 70\text{m}$

$5600 \div 70 = 80\text{m}$

Ans: 80m

Q13. (a) $\frac{f+2f+(2f-24)}{3} = \frac{5f-24}{3}\text{cm}$

Ans: $\frac{5f-24}{3}\text{cm}$

(b) Helen's height → 2(75) – 24 = 126cm

Difference → 126 - 75 = 51cm

Ans: 51cm

Q14. (a) $\frac{330-250}{250} \times 100 = 32\%$

Ans: 32% increase

(b) $75\% \times 360 = 270$

Ans: December

Q15. Singaporean students → $70\% \times 1200 = 840$

Foreign students → $1200 - 840 = 360$

Female students → $(75\% \times 840) + \left(\frac{2}{3} \times 360\right) = 870$

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Male students → $1200 - 870 = 330$

Difference → $870 - 330 = 540$

Ans: 540

Q16. (a) $\angle ADC = 180° - 82° = 98°$

$\angle ADE = 180° - 98° = 82°$

$\angle AED = (180° - 82°) \div 2 = 49°$

$\angle x = 180° - 49° = 131°$

Ans: 131°

(b) $\angle CDF = 180° - 160° = 20°$

$180° - (20° + 40°) = 60°$

$180° - 120° = 40°$

$\angle BAD = \angle BCD = 82°$

$180° - 82° = 98°$

$\angle y = 180° - (98° + 60°) = 22°$

Ans: 22°

Q17.

(Before) 20c:50c	(After) 20c:50c
3:2	7:10
24:16	14:20

$\$0.20 \times 10 = \$2$

$\$2 \div \$0.50 = 4$

10 20c coins were exchanged for 4 50c coins.

$\$0.20 \times 14 = \$2.80$

$\$0.50 \times 20 = \$10$

$\$10 + \$2.80 = \$12.80$

Ans: $12.80

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