

CATHOLIC HIGH SCHOOL END-OF-YEAR EXAMINATION (2021) PRIMARY FIVE MATHEMATICS PAPER 1 (BOOKLET A)

Name	•	()
Class	: Primary 5		
Date	; 27 October 2021		
Total tim	e for Booklet A and B : 1 h		
15 quest	tions		
20 mark	8		
Parent's	signature :		
INSTRU	CTIONS TO CANDIDATES		
Do not to	urn 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.

Booklet A and B consist of 13 printed pages excluding the cover page.

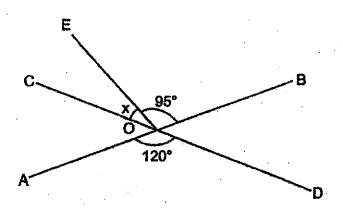
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

All diagrams are not drawn to scale.

1.	Which	Which of the following is three million, four hundred thousand and twenty in numerals?				
	(1)	3 000 420				
	(2)	3 100 420				
	(3)	3 400 020				
	(4)	3 401 020				
2.	Find	the value of 48 000 + 200				
	(1)	24				
	(2)	240				
	(3)	2400				
	(4)	24 000				
3.	Whic	ch of the following is the same as 10 m 5 cm?				
	(1)	105 cm				
	(2)	150 cm				
	(3)	1005 cm				
	(4)	10 5 0 cm				
4.	Exp	ress 0.08 as a percentage.				
	(1)	8%				
		0.8%				
	(2)					
	(2)	80%				

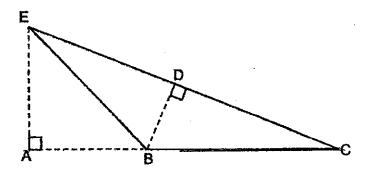
- 5. Express $6\frac{1}{7}$ as an improper fraction.
 - (1) $\frac{13}{7}$
 - (2) $\frac{42}{7}$
 - (3) $\frac{43}{6}$
 - $(4) \frac{43}{7}$
- 6. Find the volume of a cube of edge 4 cm.
 - (1) 12 cm³
 - (2) 16 cm³
 - (3) 32 cm³
 - (4) ± 64 cm³

7. Line AB and CD are straight lines. ∠AOD = 120° and ∠BOE = 95°. Find ∠x.



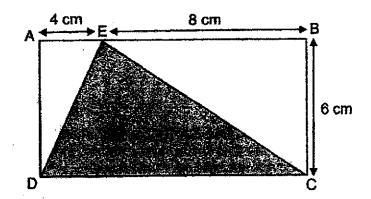
- (1) 25°
- (2) 35°
- (3) 60°
- (4) 85°
- There are 100 coloured balls. 55 of the balls are purple and the rest are yellow. What is the ratio of the number of purple balls to the number of yellow balls? Express your answer in its simplest form.
 - (1) 9:11
 - (2) 9:20
 - (3) 11:9
 - (4) 11:20

- 9. A container can hold $\frac{1}{5}$ kg of flour. How many kilograms of flour can 9 such containers hold?
 - (1) $1\frac{4}{5}$ kg
 - (2) $9\frac{1}{5}$ kg
 - (3) 14 kg
 - (4) 4 kg
- 10. In the figure below, given that EA is the height of Triangle EBC, which is the base of Triangle EBC?



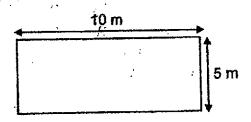
- (1) AC
- (2) BC
- (3) EC
- (4) BD
- 11. The ratio of the number of Economy Class seats to the number of Premium Class seats in an aeroplane is 5: 3. There are 112 more Economy Class seats than Premium Class seats. How many Economy Class seats and Premium Class seats are there altogether in the aeroplane?
 - (1) 56
 - (2) 168
 - (3) 280
 - (4) 448

- Julien had \$300. He spent 30% of his money on a bag and 10% of his money on a pouch. How much money did he spend in all?
 - (1) \$40
 - (2) \$90
 - (3) \$120
 - (4) \$180
- 13. ABCD is a rectangle. Point E lies on line AB. AE is 4 cm. EB is 8 cm. Find the area of the shaded triangle.



- (1) 12 cm²
- (2) 36 cm²
- (3) 48 cm²
- (4) 72 cm²

14. Jerry wanted to build a wooden fence around his rectangular field as shown below. Each metre of fence cost \$12. How much would it cost him to build a fence around his rectangular field?



- (1) \$120
- (2) \$180
- (3) \$360
- (4) \$600
- Ahmad had 16 marbles and Devi had 24 marbles. After Ahmad gave some of his marbles to Devi, the ratio of the number of marbles Ahmad and Devi had was 1:3. How many marbles did Ahmad give Devi?
 - (1) 6
 - (2) 8
 - (3) 10
 - (4) 4

END OF BOOKLET A



CATHOLIC HIGH SCHOOL END-OF-YEAR EXAMINATION (2021)

PRIMARY FIVE MATHEMATICS

PAPER 1

(BOOKLET B)

Name	•	(
Class	: Primary 5	·	
Date	: 27 October 2021	BOOKLET A	20
Total time for Booklet A and B: 1 h		BOOKLET B	
15 questions			25
25 marks		Total Marks	45
Parents	s signature :		

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

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Answer all questions.

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Booklet A and B consist of 13 printed pages excluding the cover page.

nrováde	ons 16 to 20 carry 1 mark each. Write your answers in the spaces ed. For questions which require units, give your answers in the units All diagrams are not drawn to scale. (5 marks)	Do not write in this space
16.	The solid shown below is formed using some unit cubes. How many unit cubes are used to form the solid?	
	Ans:	
17.	Find the value of 16 x 4 – 5 + 10	
	Ans:	-
18.	Express 6.06 t in cubic centimetres.	
	Ans:cm	3

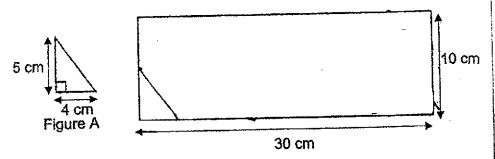
19.	Express $3\frac{1}{20}$ as a decimal.	Do not write in this space
	Ans:	
20.	Find the value of 7.6 x 80	
•	Ans:	
	Total marks for questions 16 to 20	
		5

Questic your a	Do not write in this space	
21.	Find the value of 13 + 7. Give your answer to 2 decimal places.	
	Ans:	
22.	What is the missing number in the blank?	
	14:21 =:9	
	Ans:	
23.	$\frac{2}{7}$ of a garden was planted with roses. $\frac{1}{3}$ of the roses were white and the	
	rest of the roses were red. What fraction of the garden was planted with red roses?	
		-
	Ans:	

24.	The figure below is made up of square. What percentage of the	9 identical small squares and 1 big figure is shaded?	Do not write in this space
		•	
		·	
		Ans:%	
	22°		
	×		
		Ans:	e

26.	Figure A is a right-angled triangle. What is the maximum number of Figure A that can be cut out from the rectangle as shown below?
	· (3)

Do not write In this space



Ans:	
------	--

27. The table below shows the charges for a taxi ride.

First 1 km	\$3.10
Every additional 500 m or less	\$0.30

Gary took a taxi from his office to his home. The distance from his office to his home is 2.1 km. How much did he pay for the taxi ride?

Ans: \$		

28.	In the figure below, $\angle k = 42^{\circ}$. $\angle m$ is thrice that of $\angle k$. Find $\angle j$.	Do not write in this space
×	m K	
	Ans:°	
29.	Meng En spent \$120 of his savings on a watch and $\frac{1}{3}$ of his remaining money on a book. He had $\frac{1}{2}$ of his savings left. How much was his	
	savings at first?	
	Ans: \$	

30. This year, the ratio of John's age to Mary's age is 3 : 5. Mary is 6 years older than John.

Do not write in this space

Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick $(\sqrt{})$ to indicate your answer.

				Not
	Statement	True	False	possible
				to tell
(a)	In 3 years' time, Mary will be 9 years older than John.			
(b)	Next year, the total age of John and Mary is 26 years old.			

Total marks for questions 21 to 30

20

END OF BOOKLET B END OF PAPER 1



CATHOLIC HIGH SCHOOL END-OF-YEAR EXAMINATION (2021) PRIMARY FIVE MATHEMATICS PAPER 2

Name	•	_()	
Class	: Primary 5	PAPER 1	
Date	: 27 October 2021	BOOKLET A	20
Total time	e : 1 h 30 min	PAPER 1 BOOKLET B	25
17 questi	ions	PAPER 2	
55 marks		PAPER 2	55
Parent's	signature :	Total Marks	100

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.

This booklet consists of 15 printed pages excluding the cover page.

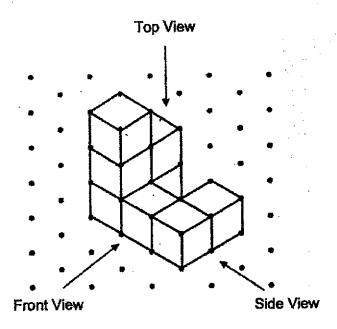
elow uesti	ions 1 to 5 carry 2 marks each. Show your working clearly in the space each question and write your answers in the spaces provided. For one which require units, give your answers in the units stated. I grams are not drawn to scale.	Do not write in this space
	Suranti had \$90 000 in her bank account. The bank paid 3.5% interest at the end of the year. She did not withdraw any of her savings for the year. How much money did she have at the end of the year?	
	Ans: \$	
2.	Mrs Lim bought $5\frac{1}{5}$ kg of meat. She used some meat to make a meat	
	pie and had $3\frac{1}{2}$ kg of meat left. How much meat did she use to make	,
	the meat ple?	
	and the second of the second o	
	Ans: k	9

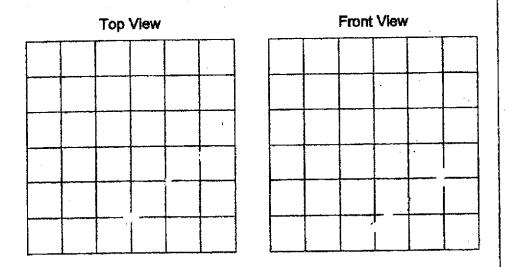
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below. ∠W	ZY is 73°. Find	4 2 41			in this
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			Ans:	•	1
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5. The following solid is made up of 8 cubes. Draw the top view and the front view of the solid.

Do not write in this space



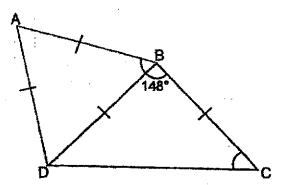


au iost	uestions 6 to 17, show your working clearly into and write your answers in the spaces proble is shown in brackets [] at the end of each	ovided. The number of marks	Do not write in this space
6.	Florence had 80 more stamps than Mand stamps to Mandy, Mandy had twice as m How many stamps did Florence have at f	any stamps as Florence.	
-		· ·	
•			
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•			
	•	Ans:[3	ــــــا الا

7,	A group of 3 boys and 8 girls went to a party. Each same number of candies and each girl was given 2 each boy. The group received a total of 82 candies did each boy receive?	boy received the more candies than . How many candies	Do not write in this space
	•		
		·	
		·	
	Ans:_	[3	n
•	Ans		*

8. The figure ABCD shown below is made up of an equilateral triangle ABD and an isosceles triangle BCD. ∠ABC = 148°. Find ∠BCD.

Do not write in this space



Ans:_____[3]

9.	Alan and Ben had \$2145 in total. After Alan spent 6 of his money and	Do not write in this space
	Ben spent $\frac{1}{5}$ of his money, they had an equal amount of money left. How much money did each of them have left?	
		A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-
	·	

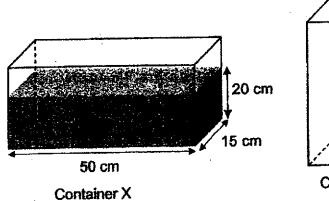
[3]

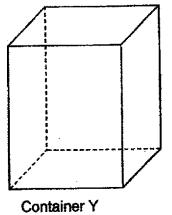
Ans:

10.	7 identical part of cost of a pair	shorts cost \$ r of shorts?	3.80 m	ore than	each T-	shirt. W	hat was	s the	in this s	pace
						•		• '		
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11. X and Y are two rectangular containers. Container X is filled with water as shown in the diagram below. Container Y is empty. All the water from Container X is poured into Container Y, without spilling. In the end, Container Y is $\frac{5}{6}$ -filled with water.

Do not write in this space





- (a) What is the volume of water in Container X?
- (b) What is the capacity of Container Y?

Ans: (a) _____ [2]

(b) _____(2]

12.	The ratio of the number of small pought for a lucky draw was 8:3	
	the different prizes.	

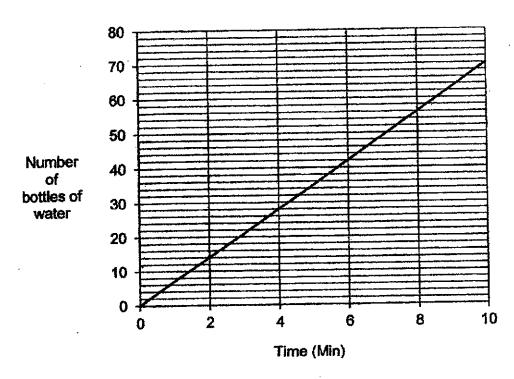
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Prizes	Costs of each prize
Small prize	\$2
Medium prize	\$5
Large Prize	\$10

A total of \$1066 was spent on buying the prizes. How many medium prizes were there in the lucky draw?

Ans:	[4]	

13. The line graph shows the number of bottles of water sealed over 10 minutes.



- (a) How many bottles of water were sealed in 1 minute?
- (b) At this rate, how many minutes would it take to seal 140 bottles of water?

Ans: (a) _____[2]

(b) _____[2]

14.	Kell \$18	y and Laura had savings of \$150 Laura and Joseph had savings of . 0. Joseph had 3 times as much savings as Kelly.	Do not write in this space
	(a)	How much savings did Kelly have?	
	· (b)	Laura and Kelly continued to save on top of what they already had. They did not spend their money. Both of them started saving from the same day. Laura saved \$5 a day and Kelly saved \$9 a day.	
	• .	How many days would it take for their savings to be the same?	
-			
			·
	٠		
	_		
	-	Ans: (a)[2]	

15.	A b	aker baked some muffins in the morning. He sold $\frac{1}{4}$ of his muffins in	Do not write in this space
	the	morning. He sold $\frac{4}{7}$ of his remaining muffins in the afternoon and	
	the	rest of his muffins in the evening. He sold each muffin at \$2 and he ected \$144 from the evening sales of his muffins.	
	(a)	How many muffins did he sell in the evening?	
	(b)	How many muffins did he bake?	
-			
n			
		Ans: (a)[2	

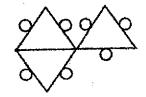
He car	An egg seller had 2070 eggs. 20% of the eggs broke during delivery. He threw the broken eggs away and packed the rest of the eggs in cartons. Each carton contained either 6 or 12 eggs. He packed 181 cartons of eggs.	
(a)	How many eggs were packed in cartons?	
(b)	How many cartons of eggs contained 6 eggs?	
	·	
	·	
	·	
•	Aug. (a) 100	
	Ans: (a)[2]	
	(b)[3]	

17. The first four figures of a pattern are shown below.

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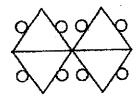


Figure 1

Figure 2

Figure 3

Figure 4

The table below shows the number of triangles and circles used for each figure.

Figure Number	Number of triangles	Number of circles	Total number of triangles and circles
1	1	3	4
2	2	4	6
3	3	7	10
4	4	8	12
5			16

[2]

- (a) Complete the table for Figure 5.
- (b) Find the total number of triangles and circles for Figure 15.

Ans: (b) _____[2]

ANSWER KEY

YEAR

: 2021

LEVEL

: PRIMARY 5

SCHOOL

: CATHOLIC HIGH SCHOOL

SUBJECT

: MATHEMATICS

TERM

: END OF YEAR EXAMINATION

PAPER 1

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

						
Q16	9			·		
Q17	64-5-	+10		4.4		
,	59+10	0				
	69					
Q18	6.06×	1000		•		
	=6060	0cm ³				
Q19	3=3	3 ₁₀₀ =3.05				
Q20	7.6×8	×10				
	=60.8	×10				
	=608					
Q21	1.86					
Q22	6					
Q23	4/21					
	21					
Q24	9/25 ×100=36%					
Q25	90°-22°=68°					
Q26	30:4=7 sets of r.2cm					
	7×4=28					
Q27	\$0.30×3=\$0.90					
	\$3.10)+\$0.90=\$ 4				
Q28	360°-42°-126°=192°					
Q29	$\frac{4}{12}$ +120=½					
	12 11 12 12 12 12 12 12 12 12 12 12 12 1					
	1u=120 4u=\$480					
Q30	a)	False 2				
	b)	True				

PAPER :						
Q1	$\frac{90000}{100} \times \frac{103.5}{1} = 93150$					
Q2	$5\frac{1}{5} - 3\frac{1}{3} = 1\frac{7}{10}$					
-	[-] 5 -, [-] 2 , [-] 10					
	=1.7kg					
Q3	180°-73°-90°=17°					
ļ	180°-73°-90°=17°					
	90°-17°-17°=56°					
Q4	4.5cm	-				
Q5	Example 1					
	- 1 desires					
Q6	95+15=110					
	1u→110					
	F→ 110+15+80=205					
	Florence had 205 stamps at first					
Q7	2×8=16					
	11u+82-16=66					
	1u→66÷11=6					
	Each boy received 6 candies					
Q8	148°-60°=88°					
	(180-88°)÷2=46°					
Q9	1/7 of Alan= 1/5 of Ben					
1	$\frac{7}{7}$ of Alan= $\frac{28}{5}$ of Ben	,				
	7 2145→ 28u+5u Ben=2145+32					
]	1					
	$4u + \frac{2145}{33} \times \frac{4}{1} = 260$					
	Each of them have \$260 left					
Q10	3.8×7=26.6					
	11.7=4					
	4 T-shirt=\$26.6					
Į	1 T-shirt→\$26.6÷4=\$6.65					
1	1 Shirt→\$6.65+\$3.80=\$10.45					
	1 pair of shorts cost \$10.45					
Q11	a) vol. of water in Container X=50×15×20					
	=15000ml					
	b) ¼→15000÷5=3000					
	6 → 3000×6=18000cm ³					
012	1066÷41=28					
Q12	26×3=78	-				
1	78 medium prizes were there in the lucky draw					

Q13	a)	14÷2=7					
		7 bottles of water were sealed in 1 minute.					
	b)	140÷7=20					
		It would take 20 minutes to seal 140 bottles of water.					
Q14	2u→\$30						
	1u→30÷2=15						
	\$150-\$15=\$135						
	\$135	-\$15=\$120					
	\$9-\$	5=\$4					
	120÷	4=30					
	a)\$1	· · ·					
<u>.</u>	b)\$30	0					
Q15	144÷	···					
	$\frac{1}{7}$ of F	R =72÷3=24					
	R = 2	4×7=168					
	$\frac{3}{4}$ of r	nuffin=168					
		muffin=168÷3=56					
	56×4	=224					
	a)72						
	b)22	4					
Q16	a)	80%→2020 100×80=1656					
	-	1656 eggs were packed in cartons					
	b)	181×2=2172					
		2172-108=516					
		12-6=6					
		516÷6=86					
Q17	a)	5,13					
	b)	46					