CATHOLIC HIGH SCHOOL

END-OF-YEAR EXAMINATION (2022)

PRIMARY THREE

MATHEMATICS

Name : _____ ( )

Class : Primary 3 _____

Date : 27 October 2022

Total time : 1 h 45 min

40 questions

80 marks

Parent's signature : _____

BOOKLET A	30
BOOKLET B	34
BOOKLET C	16
Total Marks	80

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

This booklet consists of 22 printed pages.

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Section A

Questions 1 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 (OAS). All diagrams are not drawn to scale. (30 marks)

1. 3456 is 1000 more than _____.

(1) 2456
(2) 3356
(3) 3556
(4) 4456 ( )

2. 25 hundreds 7 tens is the same as _____.

(1) 320
(2) 950
(3) 2570
(4) 3200 ( )

3. 7 groups of 8 = 5 groups of 8 + _____ x 8

(1) 56
(2) 2
(3) 3
(4) 16 ( )

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4. Divide 739 by 7. What is the remainder?

(1) 1
(2) 2
(3) 5
(4) 4 ( )

---

5. There were 156 marbles in 3 bags. How many marbles were there in 6 such bags?

(1) 26
(2) 52
(3) 312
(4) 936 ( )

---

6. The sum of two numbers is 5326. The bigger number is 3398. What is the smaller number?

(1) 1928
(2) 1938
(3) 2072
(4) 2672 ( )

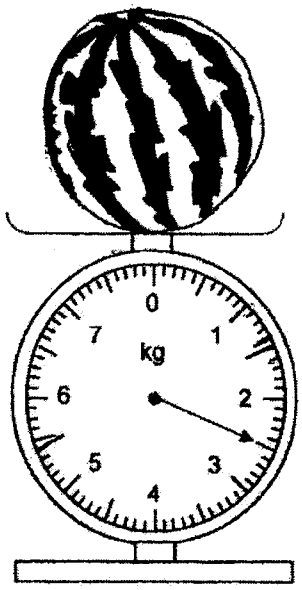
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7. John and Ken shared some money equally at first. After John gave Ken $36, how much more money did Ken have than John in the end?

(1) $18
(2) $54
(3) $72
(4) $90 ( )

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8. Study the diagram below.



Which one of the following shows the correct mass of the watermelon?

(1) 2005 g
(2) 2050 g
(3) 2450 g
(4) 2500 g ( )

---

9. Harold bought 4 boxes of pens. There were 12 pens in each box. He repacked all the pens equally into 8 bags. How many pens were there in each bag?

(1) 6
(2) 40
(3) 3
(4) 48 ( )

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10. Find the difference between $\frac{2}{3}$ and $\frac{1}{9}$.

(1) $\frac{1}{6}$

(2) $\frac{5}{9}$

(3) $\frac{7}{9}$

(4) $\frac{3}{12}$ ( )

---

11. Tom left a party at 9.15 p.m. He spent 2 h 25 min at the party. What time did Tom arrive at the party?

(1) 6.50 p.m.

(2) 7.10 p.m.

(3) 11.30 p.m.

(4) 11.40 p.m. ( )

---

12 A book costs $20. The book is $7.20 cheaper than a calculator. How much is the cost of the calculator?

(1) $7.40

(2) $12.80

(3) $13.20

(4) $27.20 ( )

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13. Which of the following fractions is smaller than $\frac{1}{2}$?

$$\frac{4}{8}, \quad \frac{3}{7}, \quad \frac{5}{9}, \quad \frac{6}{11}$$

(1) $\frac{5}{9}$

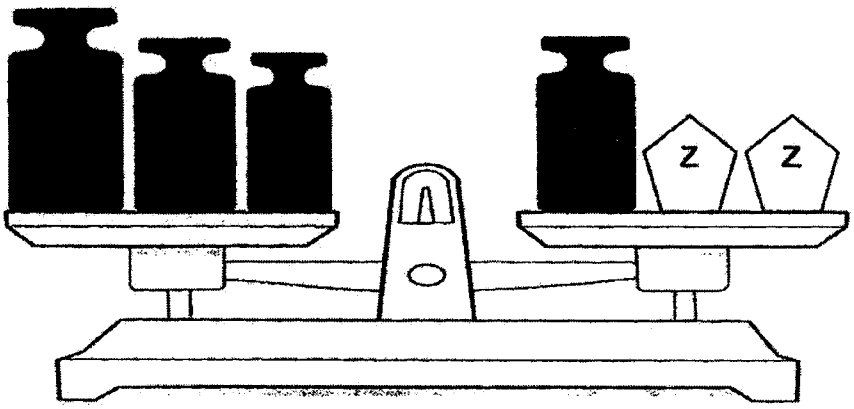
(2) $\frac{6}{11}$

(3) $\frac{3}{7}$

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

---

14. Study the diagram below. Some weights and Object Z are placed on a scale balance.

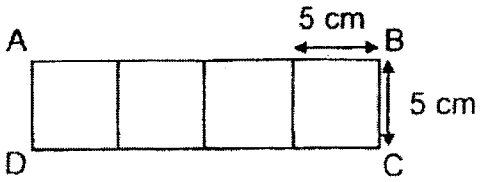


What is the mass of Object Z?

(1) 100 g
(2) 325 g
(3) 425 g
(4) 650 g ( )

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15. Rectangle ABCD consists of 4 identical squares placed side by side. The length of each square is 5 cm. What is the area of the rectangle ABCD?



(1) 20 cm^2

(2) 25 cm^2

(3) 50 cm^2

(4) 100 cm^2 ( )

END OF SECTION A

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Section B

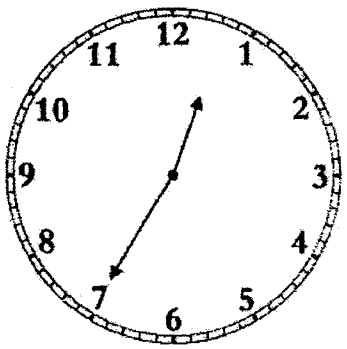
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Questions 16 to 21 carry 1 mark each. Show your working clearly in the space and write the correct answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. (6 marks)

16. What is seven thousand, one hundred and seven in numerals?

Ans: _____

17. What is the time shown on the clock?



Ans: _____ minutes to _____

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18. Write 4 km 6 m in metres.

Do not write in this space

Ans: _____ m

19. Express $\frac{6}{10}$ in its simplest form.

Ans: _____.

20. Express 1 h 34 min in minutes.

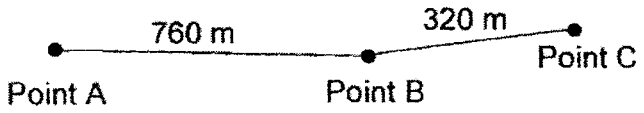
Ans: _____ min

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21. The distance from Point A to Point B is 760 m and the distance from Point B to Point C is 320 m. Find the total distance from Point A to Point B to Point C.

Do not write in this space



Ans: _____ m

Total marks for questions 16 to 21

6

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Questions 22 to 35 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. All diagrams are not drawn to scale. (28 marks)

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22. Form the smallest 4-digit odd number with the following digits. All the digits must be used. Each digit can only be used once.

7	0	1	4

Ans: _____

23. Study the number pattern below. What is the missing number?

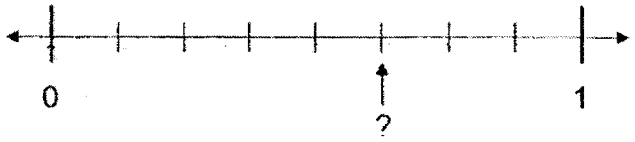
3110, 3220, 3330, _____, 3550, 3660

Ans: _____

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24. The number line below is marked at equal intervals. What is the missing fraction indicated by the arrow on the number line?

Do not write in this space



Ans: _____

25. $\frac{1}{12} + \frac{3}{4} =$?

Ans: _____

26. Michael had two $50 notes. He bought a bag that cost $76.95. How much money had he left?

Ans: $_____

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27. Richard started doing his homework at 2.45 p.m.
He completed his homework at 3.35 p.m. on the same day.
How much time did he spend on his homework?

Do not write in this space

Ans: _____ min

28. Express 9091 ml in litres and millilitres.

Ans: _____ ℓ _____ ml

29. The total mass of a mango and a papaya is 876 g. The mass of the papaya is 3 times as heavy as the mango. What is the mass of the mango?

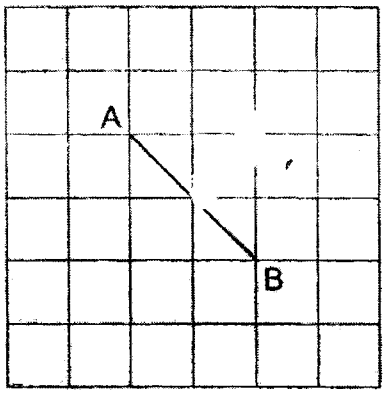
Ans: _____ g

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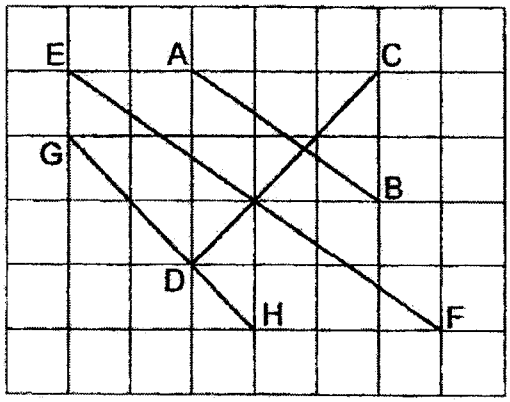
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30. Line AB is drawn in a square grid.
Draw a line perpendicular to line AB through point C.

Do not write in this space



31. Lines AB, CD, EF and GH are drawn in a square grid.
Name the two lines that are parallel to each other.



Ans: Line _____ and _____

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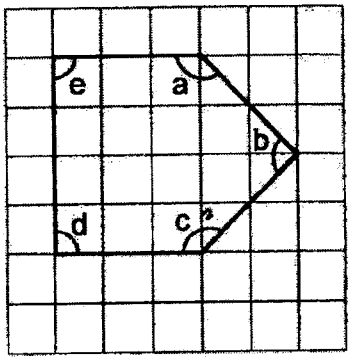
32. Carl arranged some black and white beads in a pattern as shown below. He arranged a total of 72 beads. How many black beads did he use?

Do not write in this space



Ans: _____

33. The figure shown is drawn in a square grid. Name all the obtuse angles in the figure.

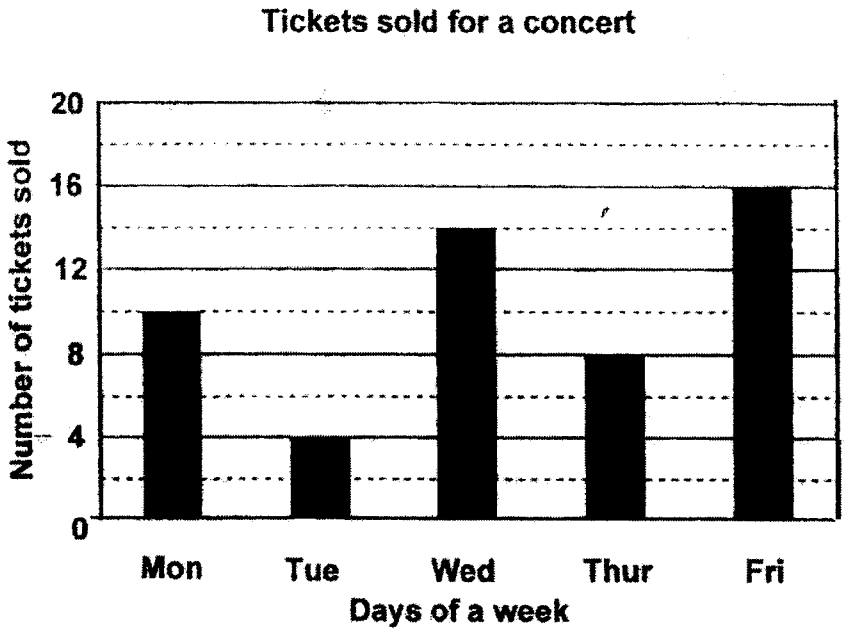


Ans: _____

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34. The bar graph below shows the number of tickets sold for a concert from Monday to Friday. Study the graph carefully.

Do not write in this space



How many more tickets must be sold on Monday so that the number of tickets sold on both Monday and Friday will be the same?

Ans: _____

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35. Study Figure X and Figure Y carefully.

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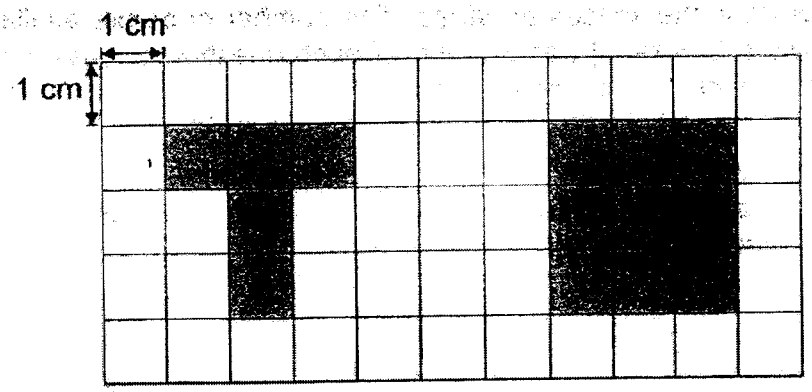


Figure X Figure Y

Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) in the correct column.

Statement	True	False	Not possible to tell
Figure X and Figure Y have the same perimeter.			
Figure X and Figure Y have the same area.			

Total marks for questions 22 to 35 28

END OF SECTION B

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Section C

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For Questions **36** to **40**, show your working clearly 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. All diagrams are not drawn to scale. (16 marks)

36. Abby had 1800 stickers. After giving away 657 stickers, she packed the rest of the stickers equally into 9 boxes. How many stickers were there in each box?

Ans: _____ [3]

(Go on to the next page)

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37. Nathan bought a basketball and a pair of shoes for $91.50. The basketball cost $37.50 less than the pair of shoes. How much did the basketball cost?

Do not write in this space

Ans: _____ [3]

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38. William filled a container completely with 6 bottles of water. Each bottle of water contained 400 ml of water. He then poured 165 ml of water out of the container. How much water was left in the container?

Do not write in this space

Ans: _____ [3]

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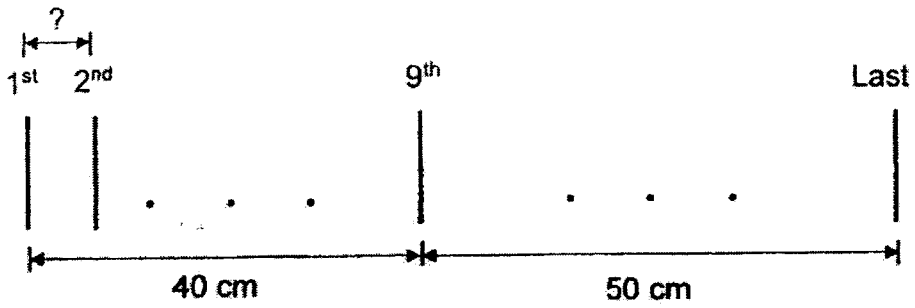
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39. Peter placed some pins along a straight line with an equal distance between each of them. The distance from the 1st pin to the 9th pin was 40 cm. The distance from the 9th to the last pin was 50 cm.

Do not write in this space

(a) Find the distance between the 1st and 2nd pin.

(b) How many pins did Peter place along the straight line?



Ans: (a) _____ [1]

(b) _____ [2]

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40. Black and white counters are arranged to form a pattern. The first three figures of the pattern are shown below

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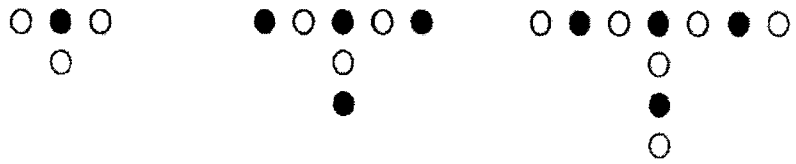


Figure 1 Figure 2 Figure 3

The table shows the number of black and white counters used for each figure.

Figure number	Number of white counters	Number of black counters	Total number of counters
1	3	1	4
2	3	4	7
3	6	4	10
4	(a)	(b)	13

(a) Find the number of white counters for Figure 4.

Ans: (a)_____ [1]

(b) Find the number of black counters for Figure 4.

Ans: (b)_____ [1]

(c) Find the total number of counters for Figure 10.

Ans: (c)_____ [2]

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EXAM PAPER 2022
LEVEL : PRIMARY 3
SCHOOL : CATHOLIC HIGH SCHOOL
SUBJECT : MATHEMATICS
TERM : EOY

BOOKLET A

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

BOOKLET B

Q16. 7107

Q17. 25 minutes to 1

Q18. 4006 m

Q19. $\frac{3}{5}$

Q20. 94 mins

Q21. 1080 m

Q22. 1047

Q23 3440

Q24. $\frac{5}{8}$

Q25. $\frac{10}{12}$

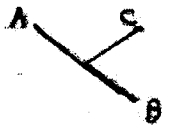
Q26. $23.05

Q27. 50 mins

Q28. 9 ℓ 91 mℓ

Q29. 219 g

Q30.



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Q31. EF and AB

Q32. 12

Q33. ∠a and ∠c

Q34. 6

Q35. True, False

Q36. 1800 – 657 = 1143

1143 ÷ 9 = 127

Q37. 91.50 – 37.50 = 54

54 ÷ 2 = $27

Delivery

Q38. 400 × 6 = 2400

2400 – 165 = 2235 mℓ

Q39. a) 40 ÷ 8 = 5 cm

b) 50 ÷ 5 = 10

10 + 8 = 18

18 gaps = 19 pins

Q40. a) 6

b) 7

c) 3 × 10 = 30

30 + 1 = 31

END

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