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Anglo-Chinese School
(Primary)

A Methodist Institution
(Founded 1886)

2021 SEMESTRAL ASSESSMENT 1
MATHEMATICS
BOOKLET A
PRIMARY FOUR

Name: _____ ( ) **Class: Primary 4** _____

Date: 11 May 2021 **Duration of Booklets A & B: 1 hour 45 minutes**

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of 9 printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Shade your answer on the Optical Answer Sheet (OAS) provided.

SECTION A - Multiple Choice Questions (30 MARKS)

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).

1. In 6578, what does the digit 5 stand for?

   (1) 5 ones

   (2) 5 tens

   (3) 5 hundreds

   (4) 5 thousands

2. 30 thousands and 8 tens is the same as _____.

   (1) 308

   (2) 3080

   (3) 30 008

   (4) 30 080

3. 31 954 rounded to the nearest hundred is _____.

   (1) 31 000

   (2) 31 950

   (3) 32 000

   (4) 32 954

4. Which of the following is a multiple of 9?

(1) 34

(2) 45

(3) 60

(4) 93

5. The sum of two numbers is 253. The difference between the two numbers is 79. What is the greater number?

(1) 87

(2) 95

(3) 166

(4) 174

6. $3\frac{4}{9} = \frac{\square}{9}$

What is the missing number in the box?

(1) 23

(2) 27

(3) 31

(4) 36

7. Arrange the following fractions from the greatest to the smallest.

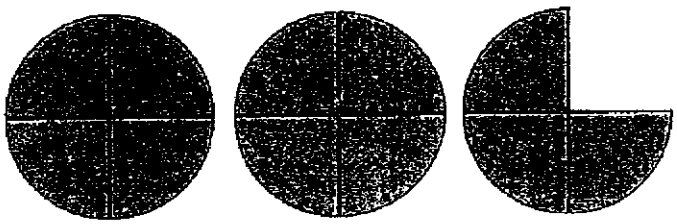
(1) $3, \frac{6}{5}, \frac{3}{5}, \frac{3}{4}$

(2) $\frac{3}{4}, \frac{3}{5}, \frac{6}{5}, 3$

(3) $3, \frac{6}{5}, \frac{3}{4}, \frac{3}{5}$

(4) $\frac{3}{4}, \frac{6}{5}, \frac{3}{5}, 3$

8. Josh bought 5 pizzas for his family and they ate some of it. The amount of pizzas left are shown in the diagram below.



How many pizzas was Josh left with?

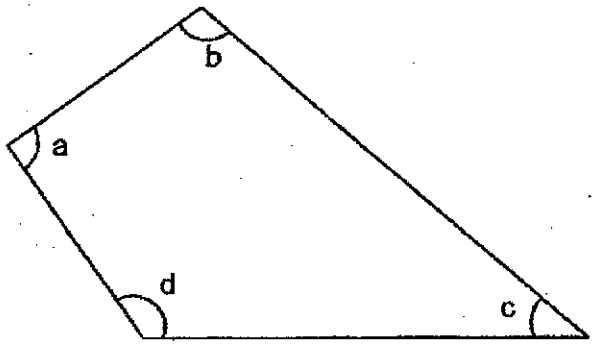
(1) $\frac{1}{12}$

(2) $\frac{11}{12}$

(3) $2\frac{1}{4}$

(4) $2\frac{3}{4}$

9. In the figure, which angle is a right angle?



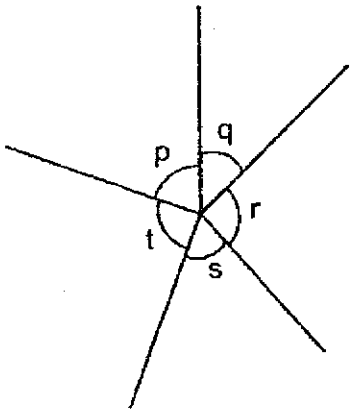
(1) $\angle a$

(2) $\angle b$

(3) $\angle c$

(4) $\angle d$

10. In the figure below, which of the following statement(s) is/are true?



✗ A. $\angle s = 90°$

✓ B. $\angle t = 90°$

✗ C. $\angle p + \angle q + \angle r = 180°$

D. All the angles are smaller than 90°

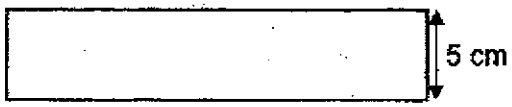
(1) A and B only

(2) C and D only

(3) B only

(4) D only

11. The figure below shows a rectangle. The area of the rectangle is 75 cm^2 and its breadth is 5 cm. Find the length of the rectangle.



(1) 65 cm

(2) 35 cm

(3) 30 cm

(4) 15 cm

12. The figure below is made up of 3 identical squares. The area of the figure is 108 cm^2. Find the length of a square.

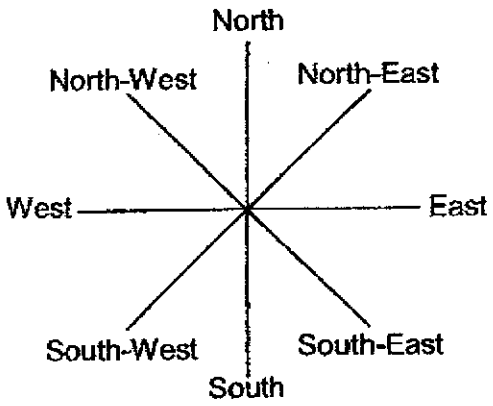
(1) 6 cm

(2) 9 cm

(3) 24 cm

(4) 36 cm

13. David is currently facing North-West. He makes a 135° anti-clockwise turn. What direction is David facing now?



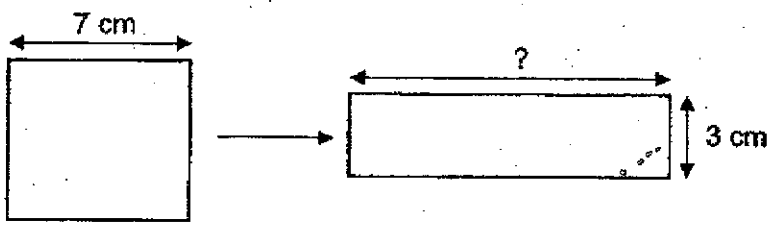
(1) East

(2) South

(3) South-East

(4) South-West

14. A piece of wire is bent to form a square of length 7 cm. The wire is straightened and bent again to form a rectangle of breadth 3 cm as shown in the diagram below. Find the length of the rectangle.



(1) 10 cm

(2) 11 cm

(3) 22 cm

(4) 25 cm

15. Jennifer read $\frac{1}{8}$ of a book on Friday, $\frac{1}{2}$ of the book on Saturday and read the rest of the book on Sunday. What fraction of the book did she read on Sunday?

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

(2) $\frac{4}{5}$

(3) $\frac{3}{8}$

(4) $\frac{5}{8}$

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2021 SEMESTRAL ASSESSMENT 1
MATHEMATICS
BOOKLET B
PRIMARY FOUR

Name: _____ ( ) Class: Primary 4 ____

Date: 11 May 2021 Duration of Booklets A & B: 1 hour 45 minutes

_____
Parent's/Guardian's signature

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of 16 printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.

Section	Maximum Marks	Marks Obtained
A. Multiple-Choice Questions	30	
B. Short Answers	40	
C. Problem Sums	30	
Total Marks	100	

SECTION B - Short Answer Questions (40 Marks)

Questions 16 to 35 carry 2 marks each. Show all workings clearly.
Write your answer in the space provided. Give your answers in the units stated and in its simplest form whenever possible.

16. Write twelve thousand and fifty-two in figures.

Answer : _____

17. Fill in the missing numbers.

750 , 870, 990 , _____ , 1230 , _____

Answer: _____ and _____

18. Some factors of 63 are 1, 3, 7 and 63. What are the other two factors of 63?

Answer : _____ and _____

19. $9999 \times 9 =$ _____

Answer : _____

20. What is the value of $\frac{3}{4} + \frac{5}{12}$?

Express your answer as an improper fraction.

Answer : _____

21. Find the value of $1 - \frac{2}{3} - \frac{1}{6}$.

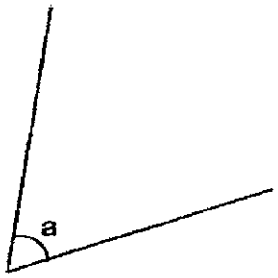
Answer : _____

22. Express your answer as a mixed number in its simplest form.

$3 - \frac{3}{10} =$ _____

Answer : _____

23. Measure and write down the size of ∠a.



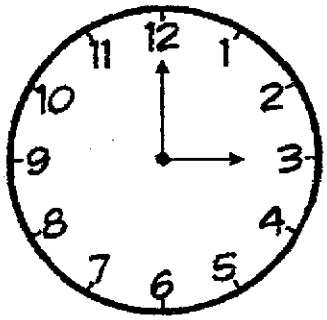
Answer : _____°

24. Arrange the following fractions from the greatest to the smallest.

$\frac{1}{3}$, $\frac{3}{4}$, $\frac{5}{8}$

Answer: _____ , _____ , _____
(greatest) (smallest)

25. The time now is 3 p.m. How many right angle(s) would the hour hand turn when it is 9 p.m.?

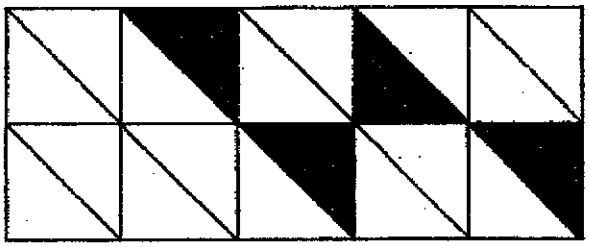


Answer : _____ right angle(s)

26. Clarence has a bag of 387 marbles. He packs them into boxes of 7 marbles each. How many marbles were left unpacked?

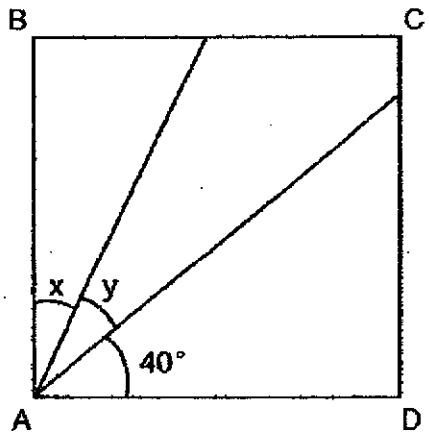
Answer : _____

27. Linda wants $\frac{4}{5}$ of the figure to be shaded. How many more triangles must Linda shade?



Answer : _____

28. In the figure shown below, ABCD is a square and $\angle x = \angle y$. Find $\angle x$.



Answer : _____°

29. A number was multiplied by 6. When 59 was subtracted from the answer, the result was 997. What was the number?

Answer : _____

30. There are 45 balloons at a party. 27 of them are red and the rest are blue. What fraction of the balloons are blue? Express your answer in the simplest form.

Answer : _____

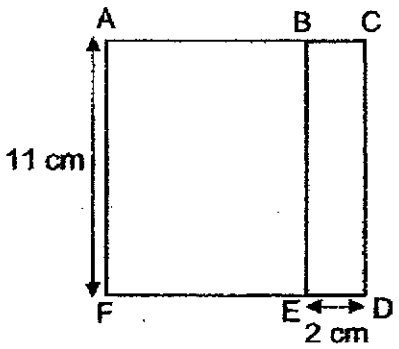
31. During the Christmas festive light up, the red lights flashed every 4 minutes and the green lights flashed every 6 minutes. The two lights flashed together at 8 p.m. What are the next two timings when the two lights will flash together again?

Answer : _____ p.m. and _____ p.m.

32. What is the sum of all the common factors of 48 and 64?

Answer : _____

33. In the figure below, ACDF is a square and ABEF and BCDE are rectangles. AF is 11 cm and ED is 2 cm. Find the area of rectangle ABEF.

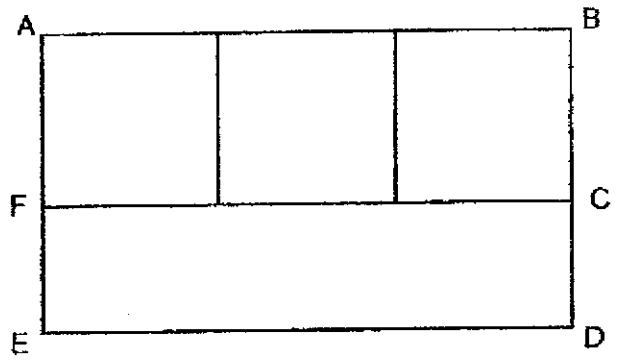


Answer : _____ cm^2

34. A bag has 24 oranges, 16 apples and 14 pears. What fraction of the bag is filled with oranges? Express your answer in the simplest form.

Answer : _____

35. In the figure below, ABDE is made up of 1 rectangle and 3 identical squares. The length of a square is 20 cm. DE is 4 times the length of CD. Find the perimeter of the figure ABDE.



Answer : _____ cm

SECTION C - Problem Sums (30 Marks)

For each question from 36 to 43, show your working and mathematical statements clearly in the space below each question. Write your answer in the answer space provided. Give your answers in the units stated and in its simplest form whenever possible. Marks awarded are shown in the brackets [ ].

36. Tina baked some cookies. She gave $\frac{3}{10}$ of the cookies to her neighbour and had 84 cookies left. How many cookies did she give to her neighbour?

Answer : _____ [3]

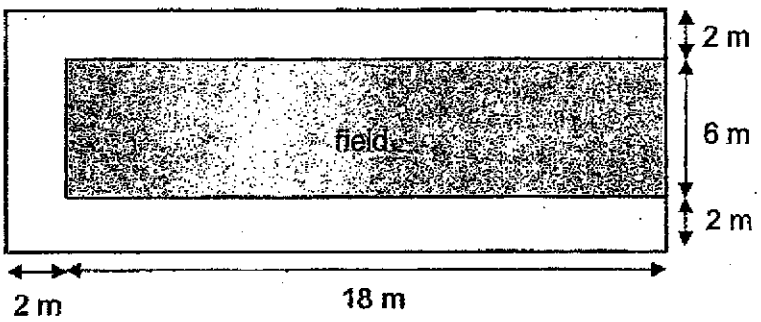
37. Ted bought 27 cartons of oranges. Each carton contains 48 oranges. Ted and his family ate 39 oranges. How many oranges does Ted have left?

Answer : _____ [3]

38. There were 413 pens in Box A and 77 pens in Box B. When an equal number of pens were added into each box, there were four times as many pens in Box A as Box B. How many pens were added into each box?

Answer : [4]

39. A rectangular field of length 18 m and breadth 6m has a path 2 m wide as shown below. What is the area of the path?



Answer : _____ [4]

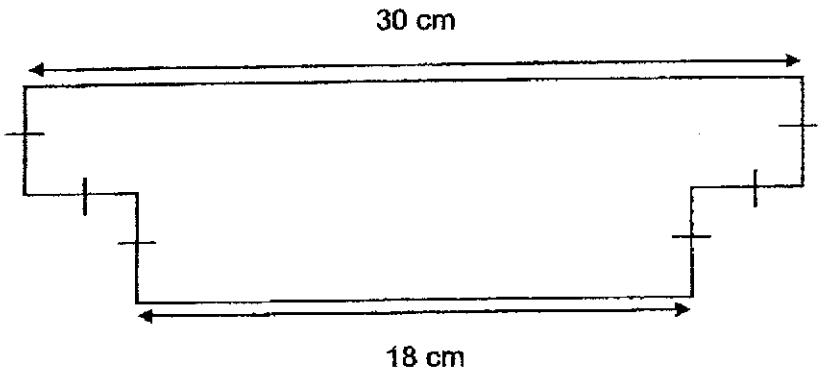
40. There are some red, blue and yellow markers in a box. $\frac{1}{4}$ of them are red and $\frac{5}{12}$ of them are blue. The rest of the 56 markers are yellow. How many markers are there in the box altogether?

Answer : _____ [4]

41. 342 people attended a concert. $\frac{2}{3}$ of them were adults while the rest were children. There were 28 more girls than boys. How many boys were there at the concert?

Answer : _____ [4]

42. Jason cut off 2 corners of a piece of paper. The piece of paper he obtained is shown below. What is the area of the piece of paper shown below?



Answer : _____ [4]

43. The cost of 2 books and 3 files is $126. A book costs $23 more than a file. What is the cost of a file?

Answer : _____ [4]

End-of-Paper

ANSWER KEY

YEAR : 2021
LEVEL : Primary 4
SCHOOL : Anglo-Chinese School
SUBJECT : MATHEMATICS
TERM : Semestral Assessment 1

Section A

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

Section B

Q16	12052	Q17	990+120=1110 1230+120=1350 Ans : 1110 and 1350
Q18	9 and 21	Q19	$9999 \times 9 = 89991$
Q20	$\frac{3}{4} = \frac{9}{12}$ $\frac{9}{12} + \frac{5}{12} = \frac{14}{12}$	Q21	$\frac{2}{3} = \frac{4}{6}$ $1\frac{4}{6} - \frac{1}{6} = \frac{1}{6}$
Q22	$3\frac{3}{10} = 2\frac{7}{10}$	Q23	63
Q24	$\frac{3}{4}, \frac{5}{8}, \frac{1}{3}$	Q25	2
Q26	$387 \div 7 = 55R2$ Ans : 2	Q27	$\frac{4}{5} = \frac{16}{20}$ 16-4=12
Q28	90-40=50 $50 \div 2 = 25$	Q29	997+59=1056 $1056 \div 6 = 176$
Q30	45-27=18 $45 \div 9 = 5$ 5-3=2 Ans : $\frac{2}{5}$	Q31	4,8,12,16,20,24 6,12,18,24 common mulitiple→ 12, 24 Ans : 8.12pm and 8.24pm
Q32	1+2+4+8+16=31	Q33	11-2=9 $11 \times 9 = 99$
Q34	24+16+14=54 $\frac{24}{54} = \frac{4}{9}$	Q35	$60 \div 4 = 15$ 60+35+60+35=190

SECTION C

Q36	$84 \div 7 = 12$ $12 \times 3 = 36$	Q37	$27 \times 48 = 1296$ 1296-39=1257
Q38	$336 \div 3 = 112$ 112-77=35	Q39	18+2=20 6+4=10 $20 \times 10 = 200$ $6 \times 18 = 108$ 200-108=92m^2
Q40	$56 \div 4 = 14$ $14 \times 12 = 168$	Q41	$342 \div 3 = 114$ 114-28=86 $86 \div 2 = 43$
Q42	$6 \times 6 = 36$ $36 \times 2 = 72$ 360-72=288cm^2	Q43	$23 \times 2 = 46$ 126-46=80 $80 \div 5 = \$16$