SA1

CATHOLIC HIGH SCHOOL
MID-YEAR EXAMINATION (2021)
PRIMARY FOUR
MATHEMATICS

Name : _____ ( )

Class : Primary 4 _____

Date : 10 May 2021

Total time : 1 h 45 min

45 questions

100 marks

Parent's signature : _____

SECTION A	40
SECTION B	40
SECTION C	20
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.

Shade your answers in the Optical Answer Sheet (OAS) provided.

This booklet consists of 21 printed pages excluding the cover page.

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Section A

Questions 1 to 20 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. (40 marks)

1. In the number 14 320, which digit is in the thousands place?

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

2. Which of the following numbers is 4000 more than 57 130?

(1) 17 130
(2) 53 130
(3) 61 130
(4) 97 130 ( )

3. The value of the digit 7 in 17 065 is _____.

(1) 700
(2) 7000
(3) 70 000
(4) 700 000 ( )

4. 8 ten thousands + 4 hundreds + 3 ones = _____.
What is the missing number?

(1) 8430
(2) 8043
(3) 80 403
(4) 84 003 ( )

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5. Multiply 2083 by 9.

(1) 11 072
(2) 12 082
(3) 18 727
(4) 18 747 ( )

---

6. The sum of two numbers is 1600. The difference between the two numbers is 280. Find the smaller number.

(1) 520
(2) 660
(3) 800
(4) 940 ( )

---

7. Find the quotient when 4964 is divided by 7.

(1) 709
(2) 710
(3) 28 328
(4) 34 748 ( )

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8. Which of the following are common factors of 8 and 12?

(1) 2 and 3
(2) 2 and 4
(3) 4 and 8
(4) 4 and 12 ( )

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9. 270° is equal to a _____ turn.

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

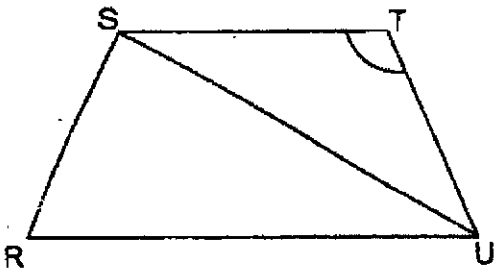
(2) $\frac{1}{2}$

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

(4) complete ( )

---

10. Name the marked angle in the following figure.



(1) ∠TSU

(2) ∠STU

(3) ∠SRU

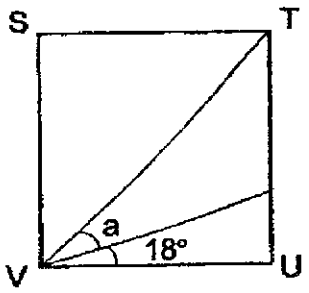
(4) ∠TUS ( )

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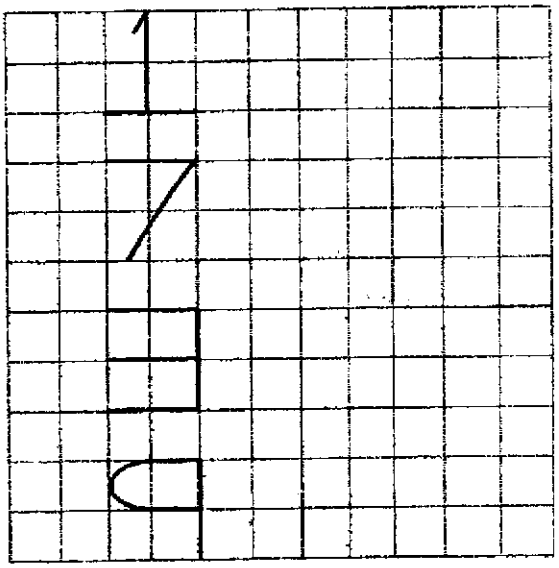
11. In the figure below, STUV is a square. Find ∠a.



(1) 27°
(2) 54°
(3) 63°
(4) 72° ( )

12. In the square grid below, which of the following figures is symmetrical?

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

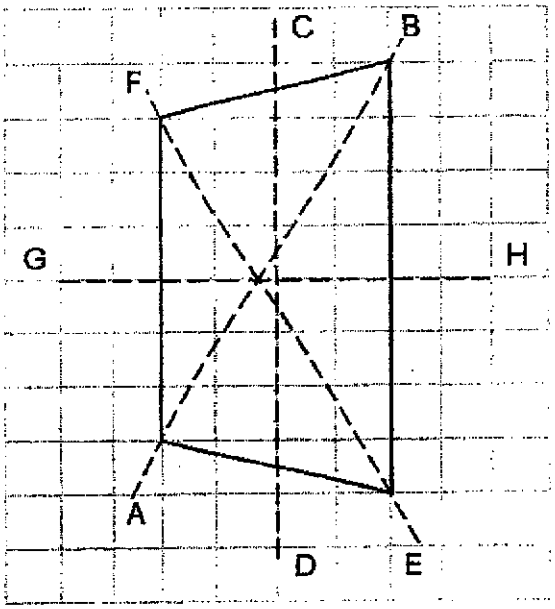


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13. In the following figure, which of the dotted lines is a line of symmetry?



(1) Line AB

(2) Line CD

(3) Line EF

(4) Line GH ( )

---

14. The product of 5 and a number is 4380. What is the number?

(1) 865

(2) 876

(3) 21 900

(4) 21 906 ( )

---

15. Every week, Ethan saves $3 and his sister saves $2 more than him. How many weeks will they take to save a total of $1680?

(1) 210

(2) 240

(3) 336

(4) 560 ( )

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16. There are 2 light bulbs A and B that blink at different timings. Light bulb A and light bulb B blink every 3 minutes and 7 minutes respectively. The light bulbs are switched on at 11 a.m. At what time will both light bulbs blink at the same time?

(1) 11.03 a.m.

(2) 11.07 a.m.

(3) 11.10 a.m.

(4) 11.21 a.m. ( )

---

17. A baker baked some tarts and packed them into boxes of 9 tarts. After packing 2853 boxes, there were 6 tarts left unpacked. How many tarts did the baker bake?

(1) 317

(2) 323

(3) 25 677

(4) 25 683 ( )

---

18. There are 186 rows of chairs in the school hall. Each row has 12 chairs. How many chairs are there altogether?

(1) 558

(2) 2122

(3) 2232

(4) 3906 ( )

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19. I am a multiple of 7.
One of my factors is 3.
I am between 35 and 50.
What number am I?

(1) 39

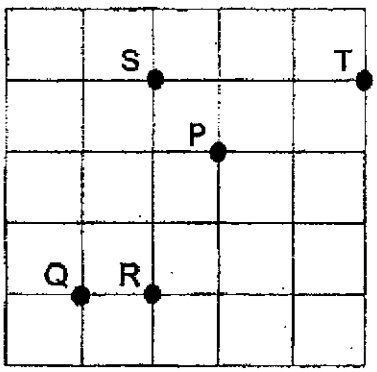
(2) 42

(3) 45

(4) 49 ( )

---

20. The following square grid shows the position of P, Q, R, S and T.
Which letter is south-west of P?





(1) Q

(2) R

(3) S

(4) T ( )

END OF SECTION A

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Section B

Questions **21** to **40** 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. (40 marks)

Do not write in this space

21. Write thirteen thousand and eight in numerals.

Ans: _____

22. What is the greatest 5-digit even number that can be formed using the digits 2, 1, 5, 8 and 9? Each digit can only be used once.

Ans: _____

23. Write the missing number in the number pattern below.

73 645 , 72 645 , 71 645 , ____?____ , 69 645 , 68 645

Ans: _____

(Go on to the next page)

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24. The number of people at a concert is 2800 when rounded to the nearest hundred. What is the largest possible number of people at the concert?

Do not write in this space

Ans: _____

25. There was an equal number of tokens in Box A and Box B. After 8 tokens were removed from Box B and 8 tokens were added to Box A, there were 190 tokens in Box B. How many tokens were there altogether in the end?

Ans: _____

26. Four of the factors of 45 are 1, 3, 5 and 45. List down two other factors of 45.

Ans: _____ and _____

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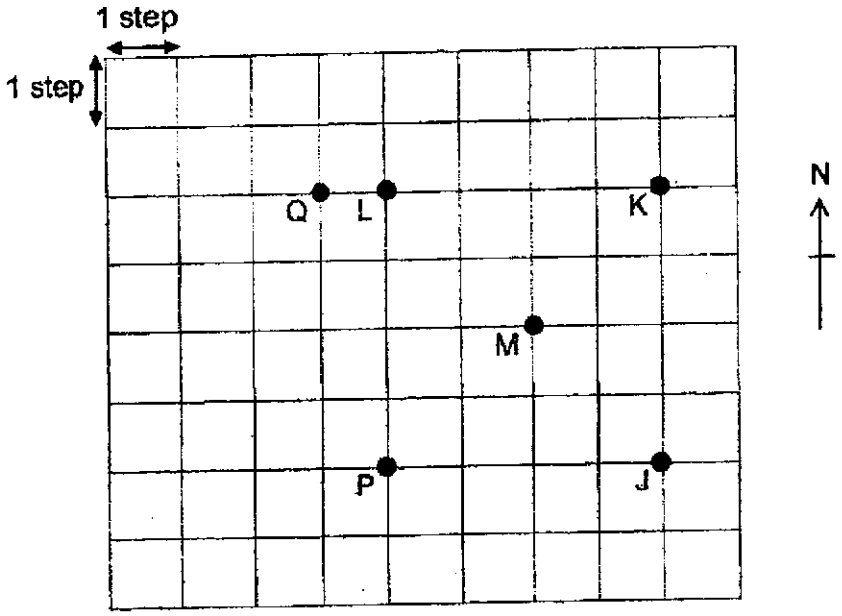
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27. Izekiel has 144 marbles and Alex has 86 marbles. How many marbles must Izekiel give Alex so that they will have the same number of marbles?

Ans: _____

28. Look at the square grid below and answer the following question.



Tom was at one of the points shown in the square grid at first. Then he walked 3 steps to the east, 2 steps to the south and 1 step to the west. He ended up at Point M. What was his starting point?

Ans: _____

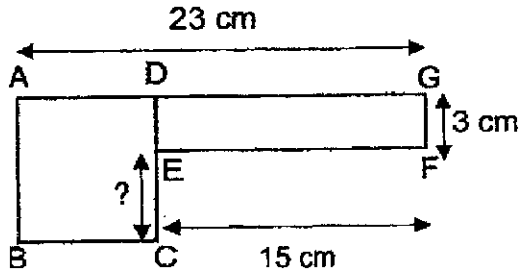
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29. The figure below is made up of a square ABCD and a rectangle DEFG. AG is 23 cm, GF is 3 cm and EF is 15 cm. Find the length of CE.

Do not write in this space



Ans: _____ cm

30. Joyce has 3080 beads. Rebekah has 3 times as many beads as Joyce. How many beads do Joyce and Rebekah have altogether?

Ans: _____

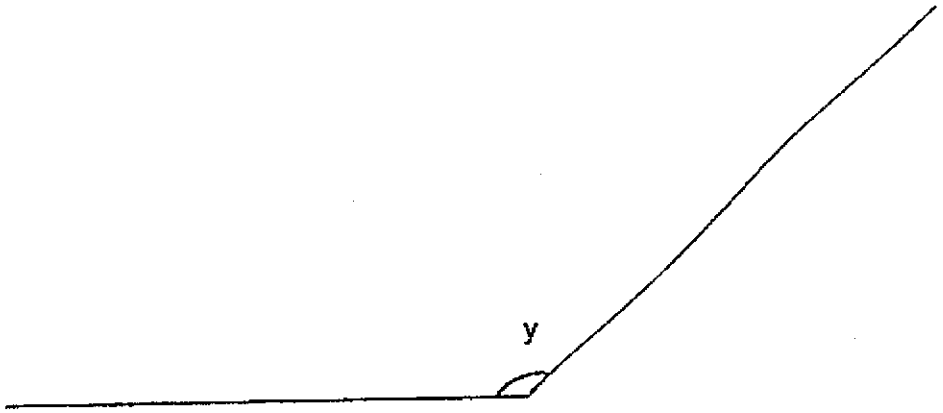
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31. Use a protractor to measure ∠y. Write the answer in the answer blank.

Do not write in this space



Ans: _____ °

32. 4 tables cost as much as 3 sofas. Each sofa cost $2592. How much did each table cost?

Ans: $ _____

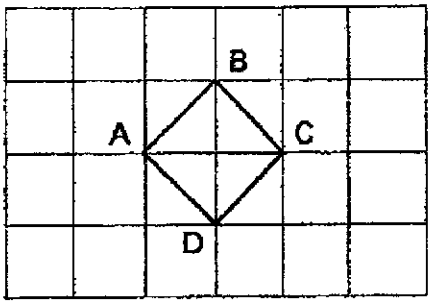
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33. Study the figure ABCD drawn in the square grid below.

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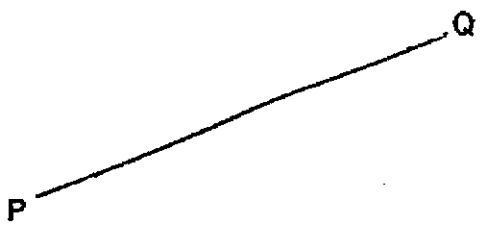


Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) to indicate your answer.

	Statement	True	False	Not possible to tell
a)	Figure ABCD has exactly one pair of parallel sides.			
b)	All of its angles in Figure ABCD are right angles.			

34. a) Draw an angle on the given line such that ∠PQR is 25°.

b) Mark the angle that shows 25°.

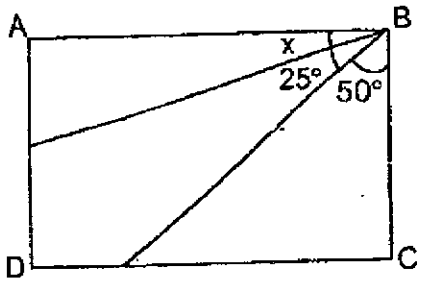


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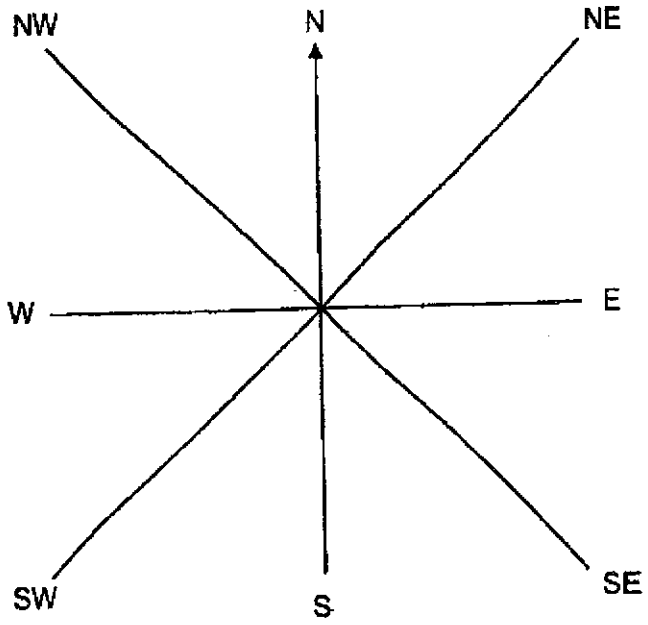
35. In the figure below, ABCD is a rectangle. Find $\angle x$.

Do not write in this space



Ans: _____ °

36. The figure shows an 8-point compass. Thaddeus was facing the north-west (NW) at first. He then turned 135° anti-clockwise. Which direction does he face now?



Ans: _____

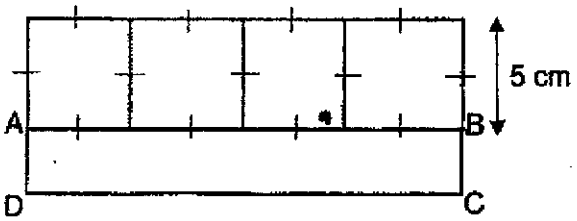
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37. The figure below shows 4 identical squares and a rectangle ABCD. One side of the square is 5 cm. Find the length of DC.

Do not write in this space



Ans: _____ cm

38. Mrs Tong paid $1044 for 2 pairs of shoes and 2 dresses. Each pair of shoes cost twice as much as a dress. How much did each dress cost?

Ans: $ _____

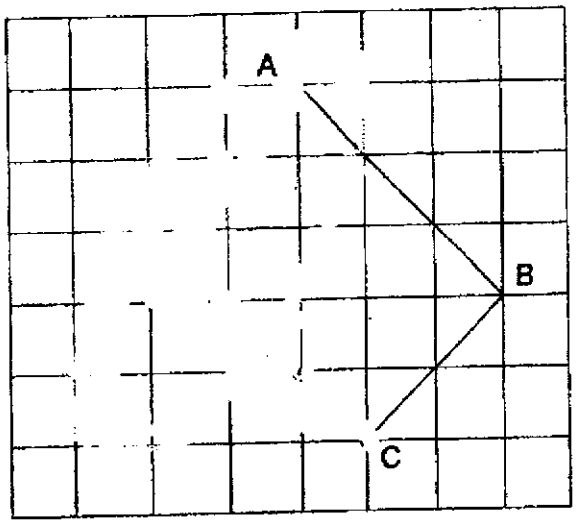
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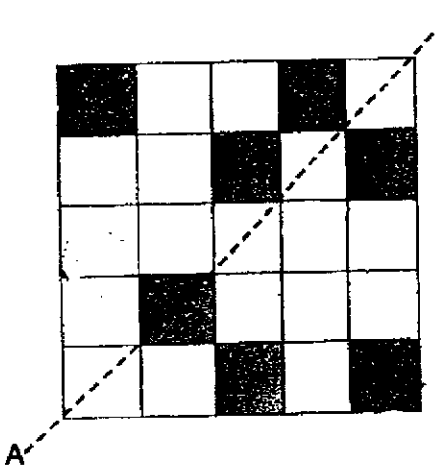
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39. In the square grid below, draw a rectangle ABCD from the given lines.

Do not write in this space



40. The figure below is made up of identical squares. Line AB is the line of symmetry. Shade two more squares to make the figure symmetric.



Total marks for question 21 to 40

40

END OF SECTION B

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Section C

For Questions **41** to **45**, 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.

(20 marks)

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41. Amy, Eileen and Sarah shared 1975 beads. Amy had 86 fewer beads than Eileen and 104 fewer beads than Sarah. How many beads did Amy have?

Ans: _____ [4]

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42. Mr Rai has $589 to buy some bottles for his pupils.

Do not write in this space

a) Each bottle costs $6. What is the greatest number of bottles Mr Rai can buy?

b) What is the total amount of money he would have to pay?

Ans: (a)_____ [2]

(b)_____ [2]

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43. Mrs Chan bought a bag and 5 similar shirts. The bag cost $272 more than the 5 shirts. She gave the cashier $1200 and received $48 change. How much did each shirt cost?

Do not write in this space

Ans: _____ [4]

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44. Martin, Kelvin and Ahmad have 120 candies. Ahmad has 6 more candies than Martin. Kelvin has thrice the total amount of candies that Martin and Ahmad have. How many candies does Martin have?

Do not write in this space

Ans: _____ [4]

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45. Joanne had 569 red, white and green cubes altogether. She had 4 times as many green cubes as white cubes. There were 34 fewer red cubes than green cubes. How many green cubes did Joanne have?

Do not write in this space

Ans: _____ [4]

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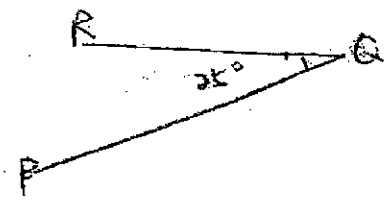
ANSWER KEY

YEAR : 2021
LEVEL : Primary 4
SCHOOL : Catholic High School
SUBJECT : MATHEMATICS
TERM : Mid-Year Examination

Section A (PAPER 1)

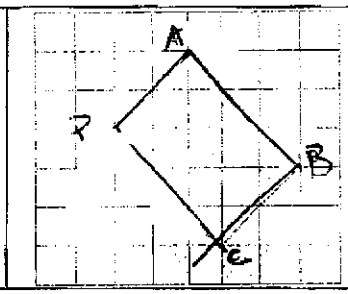
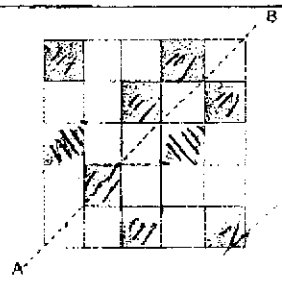
Q1	4	Q2	3	Q3	2	Q4	3	Q5	4
Q6	2	Q7	1	Q8	2	Q9	3	Q10	2
Q11	1	Q12	3	Q13	4	Q14	2	Q15	1
Q16	4	Q17	4	Q18	3	Q19	2	Q20	1

BOOKLET B (PAPER 1)

Q21	13008	Q22	98512
Q23	71645-1000=70645	Q24	2849
Q25	190+8+8=206 206+190=396	Q26	9 and 15
Q27	144-86=58 $58 \div 2 = 29$	Q28	Point L
Q29	23-15=8 8-3=5	Q30	$3080 \times 4 = 12320$
Q31	136°	Q32	$2592 \times 3 = 7776$ $7776 \div 4 = 1944$
Q33	(a) False (b) True	Q34	(a) and (b) 
Q35	50+25=75 90-75=15	Q36	South
Q37	$5 \times 4 = 20$	Q38	$1044 \div 6 = 174$

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Q39		Q40	

PAPER 2

Q41	86+104=190 1975-190=1785 $1785 \div 3 = 595$	Q42	(a) $589 \div 6 = 98R1$ Ans : 98 (b) $98 \times 6 = \$588$
Q43	1200-48=1152 1152-272=880 $880 \div 10 = \$88$	Q44	$6 \times 4 = 24$ 120-24=96 $96 \div 8 = 12$
Q45	569+34=603 $603 \div 9 = 67$ $67 \times 4 = 268$		

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