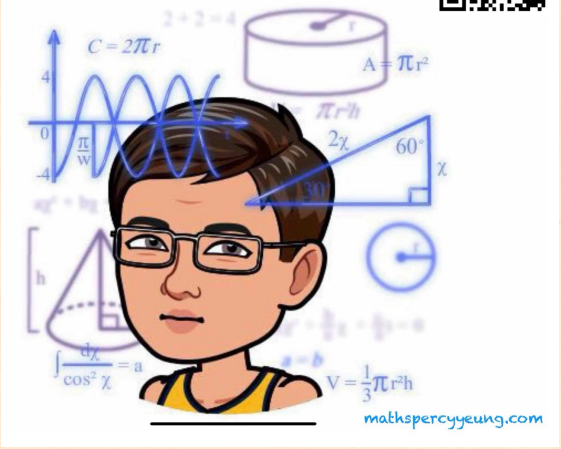


S1

Mathematics

Past Exam Paper (1314–2223)

Question Book

Ch1 Basic Computation

UCCKE F1 Ch1 Basic Computation

Ch1 Basic Computation

[2021 S.1 ASUT IQ Q16]

1. Find the result of "Divide 1 by the sum of –11 and 13, and then add the quotient to 3". (4 marks)

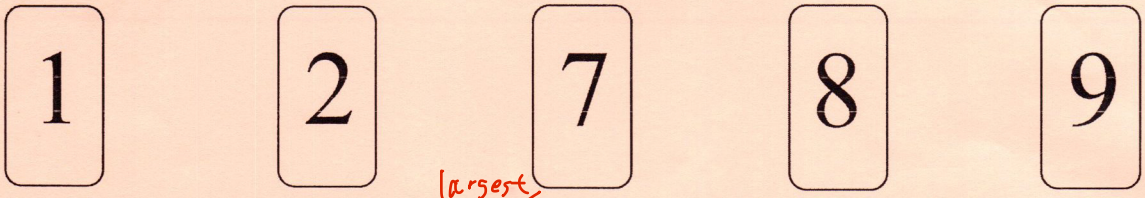
[2021 S.1 ASUT IQ Q18]

2. (a) Find the H.C.F. and L.C.M. of 450 and 600 and leave the answers as prime factorization. (4 marks)

   (b) Hence, or otherwise, find the H.C.F. and L.C.M. of. of ab^2c^2 and a^3bc^2. (2 marks)

[2021 S.1 ASUT AQ Q21]

3. Which of the following statements are true? The following shows five cards of number 1, 2, 7, 8 and 9 respectively.



   (a) Choose three cards to form a ~~smallest~~ largest three-digit number which is divisible by 8. (1 mark)

   (b) ~~By using the result of (a),~~ use all the five cards to form a largest five-digit number which is divisible by 8. (2 marks)

[2122 S.1 ASUT MC Q1]

4. Which of the following numbers is divisible by both 4 and 9?

   A. 10 976

   B. 79 254

   C. 286 700

   D. 989 964

[2122 S.1 ASUT MC Q4]

5. The H.C.F. and the L.C.M of three numbers are 2×3^2 and $2^4\times3^5\times5^6$ respectively. If the first number and the second number are $2^2\times3^4\times5$ and $2^4\times3^2\times5^6$ respectively, then the third number is

   A. 2×3^2.

   B. 2×3^5.

   C. $2\times3^2\times5$.

   D. $2\times3^5\times5$.

[2122 S.1 ASUT BQ Q12]

6. Find the value of $\left(3\frac{1}{2}-\frac{2}{3}\right)\div\left(\frac{4}{5}+\frac{1}{3}\right)$. (3 marks)

[2122 S.1 ASUT IQ Q16]

7. (a) Find the prime factorizations of 198 and 693 by using short division. (3 marks)

   (b) Hence, express the H.C.F. and L.C.M of 198 and 693 as prime factorizations. (2 marks)

[2223 S.1 ASUT MC Q1]

8. Which of the following numbers is divisible by 9?

A. 42 588
B. 75 048
C. 214 035
D. 542 085

[2223 S.1 ASUT MC Q10]

10. Find the H.C.F. and the L.C.M. of 225 and 735.

	H.C.F.	L.C.M.
A.	3×5	$3^2 \times 5^2 \times 7^2$
B.	$3^2 \times 5^2$	$3 \times 5 \times 7^2$
C.	3×5	$3 \times 5 \times 7^2$
D.	$3 \times 5 \times 7$	$3^2 \times 5^2 \times 7^2$

[2223 S.1 ASUT BQ Q12]

41. Find the value of $\left(2\frac{1}{2}-\frac{2}{3}\right)\div\frac{5}{6}$.

(3 marks)

[2223 S.1 ASUT IQ Q17]

42. Daisy only has five \$20 banknotes and seven \$2-coins. She buys 3 cans of orange juice which costs \$12.5 each. After that, she goes to a cinema and wants to buy a ticket for a movie. If the price of a ticket is \$80, does Daisy have enough money to buy one ticket? Explain your answer.

(3 marks)