

Exercise 1A

Questions 4:

(i) On dividing 2520 by 405, we get Quotient = 6, remainder = 90 2520 = (405 x 6) + 90 Dividing 405 by 90, we get Quotient = 4, Remainder = 45 405 = 90 x 4 + 45 Dividing 90 by 45 We get Quotient = 2, remainder = 0 90 = 45 x 2 H.C.F. of 405 and 2520 is 45

405)2520 (6 2430 90) 405 (4 360 45)90(2 90 ×

(ii) Dividing 1188 by 504, we get Quotient = 2, remainder = 180 $1188 = 504 \times 2 + 180$ Dividing 504 by 180 Quotient = 2, remainder = 144 $504 = 180 \times 2 + 144$ Dividing 180 by 144, we get Quotient = 1, remainder = 36 Dividing 144 by 36 Quotient = 4, remainder = 0 H.C.F. of 1188 and 504 is 36

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504)1188 ( 2

1008

180) 504 (2

360

144) 180 (1

144

36)144( 4

144

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(iii) Dividing 1575 by 960, we get
Quotient = 1, remainder = 615
1575 = 960 \times 1 + 615
Dividing 960 by 615, we get Quotient = 1, remainder = 345
960 = 615 \times 1 + 345
Dividing 615 by 345 Quotient = 1, remainder = 270
615 = 345 \times 1 + 270
Dividing 345 by 270, we get Quotient = 1, remainder = 75
345 = 270 \times 1 + 75
Dividing 270 by 75, we get Quotient = 3, remainder = 45
270 = 75 \times 3 + 45
Dividing 75 by 45, we get Quotient = 1, remainder = 30
75 = 45 \times 1 + 30
Dividing 45 by 30, we get Remainder = 15, quotient = 1
45 = 30 \times 1 + 15
Dividing 30 by 15, we get Quotient = 2, remainder = 0
H.C.F. of 1575 and 960 is 15
960)1575 (1
         960
         615) 960 (1
                  615
                  345) 615 (1
                         3<u>45</u>
270)345( 1
                                 270
                                    75)270 (3
                                        225
45)75(1
                                                45
30) 45(1
                                                       30
15) 30(2
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******* END ******