Exercise 1A

Questions 1: For any two given positive integers a and b there exist unique whole numbers q and r such that
Here, we call 'a' as dividend, b as divisor, q as quotient and r as remainder.
Dividend = (divisor quotient) + remainder

Questions 2: By Euclid's Division algorithm we have:
Dividend = (divisor * quotient) + remainder
= (61 * 27) + 32 = 1647 + 32 = 1679

Questions 3: By Euclid's Division Algorithm, we have:
Dividend = (divisor quotient) + remainder

$$1365 = (\text{divisor} \times 31) + 32$$

$$\frac{1365 - 32}{31} = \text{divisor}$$

$$\Rightarrow \frac{1331}{31} = \text{divisor}$$

$$\therefore \text{Divisor} = 43$$

********** END **********