

Exercise 1.7

Q.1 Estimate the following by rounding off each factor to the nearest hundreds.

(i) $730 + 998$

It can be rounded off as $700 + 1000$
 $= 1700$

(ii) $796 - 314$

It can be rounded off as $800 - 300$
 $= 500$

(iii) $875 - 384$

It can be rounded off as $900 - 400$
 $= 500$

Q.2 Estimate the following by rounding off each factor to nearest ~~hundreds~~ thousands.

(i) $12,904 + 2,888$

It can be written as $= 13,000 + 3,000$
 $= 16,000$

$$(ii) 28,292 - 21,496$$

$$\text{It can be written as } 28,000 - 21,000 \\ = 7,000$$

Q3 Estimate the following by rounding off each number to its greatest place value.

$$(i) 439 + 334 + 4,317 \quad (ii) 8,325 - 491$$

$$(iii) 1,08,734 - 47,599 \quad (iv) 898 \times 785$$

$$(v) 9 \times 795 \quad (vi) 87 \times 317$$

Solution: (i) $400 + 300 + 4000 = 4,700$

$$(ii) 8,000 - 500 = 7,500$$

$$(iii) 1,00,000 - 50,000 = 50,000$$

$$(iv) 900 \times 800 = 7,20,000$$

$$(v) 10 \times 800 = 8,000$$

$$(vi) 90 \times 300 = 27,000$$

Q4 Find the estimated quotient for each of the following by rounding off each number to its greatest place.

$$(i) 878 \div 28$$

$$(ii) 745 \div 24$$

$$(iii) 4489 \div 394$$

Solution (i) quotient by rounding off = $900 \div 30$
 $= 30$

$$(ii) 700 \div 20 = 35$$

$$(iii) 4000 \div 400 = 10$$