Maths Worksheet-2

Ch-2 Estimation & Approximation

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1 Round off to the nearest tens
(i) 453 (ii) 7326 (iii) 24712

2 Round off to the nearest hundreds
(i) 847 (ii) 4972 (iii) 62253

3 Round off to the nearest thousands
(i) 4507 (ii) 18297 (iii) 25716

1A) 450 (ii) 7330 (iii) 24710
2A) 800 (ii) 5000 (iii) 62300
3A) 5000 (ii) 18000 (iii) 26000

4 Estimate the product & verify by actual calculation

(a) 38 x 7 - 40 38
x 10 x 7
400 266

(b) 45 x 67 - 50 45
x 70 x 67
3500 315
+2700
3015

(c) 225 x 8 - 230 225
x 10 x 8
2300 1800

(d) 48 × 73 − 50
× 70
3500

48
× 73
144
+ 3360
3504

(e) 602 × 45 − 600
× 50
30000

602
× 45
3010
+ 24080
27090

5 Choose the best estimate from the possible answers given

(a) 3 × 52 = (150)
(b) 7 × 31 = (210)
(c) 2 × 698 = (1400)
(d) 2 × 88 = (180)

6 Estimate the sums by rounding off to the nearest thousands

(i) 7789 − 569 7789 to nearest thousand − 8000
569 to nearest thousand − 1000

8000
− 1000
7000

(iii) 8976 + 4356 - 8976 to the nearest thousand - 9000

4356 to the nearest thousand - 4000

9000
-4000
5000

(iv) 5483 x 768 - 5463 to the nearest thousand - 5000

768 to the nearest thousand - 1000

5000
x 1000
5,000,000

7 Estimate each of the following using general rule

(a) 730 + 998 - 730 to nearest hundred

700

998 to nearest hundred

1000

700
+1000
1700

(b) 796 - 314 796 to nearest hundred

800

314 to nearest hundred - 300

800
− 300
500

(c) 12,904 + 2,888 - 12,904 to nearest thousand 13000
2,888 to nearest thousand = 3000

13000
+ 3000
16000

(d) 28,292 - 21,496 - 28,292 to nearest thousand 28000
21,496 to nearest thousand 21,000

28,000
− 21,000
7000

8 Give a rough estimate (by rounding off to nearest hundreds) and also a closer estimate (by rounding off to nearest tens)

(a) 439 + 334 + 4,317 to the nearest hundred 400 + 300 + 4300 = 5000
439 + 334 + 4317 to the nearest ten. 440 + 330 + 4320 = 5090

(b) 1,08,734 - 47,599 = to nearest hundred - 1,08,700 - 47,600

1,08,700
- 47,600
61,100

to nearest ten - 1,08,730 - 47,600

1,08,730
- 47,600
61,130

(c) 8325 - 491 to nearest hundred

8300
- 500
7800

to nearest ten - 8330
- 490
7840

(d) 4,89,348 - 48,365 to nearest hundred

4,89,300
- 48,400
4,40,900

to nearest ten - 4,89,350 - 48,370

4,89,350
- 48,370
4,40,980

9 Estimate the following products using general rule

(a) 578 × 161 = to nearest hundred.
600 × 200 = 120,000

(b) 5281 × 3491 = to nearest thousand
5000
× 3000
15,000,000

(c) 1291 × 592 = to nearest hundred
1300
× 600
7,80,000

10 find the largest number formed by the digits 4,3,0,9 rounded off to the nearest hundred.

Ans the largest number - 9430
to the nearest hundred - 9400

11 (b) 2400

12 (c) 200

13 (c) 330

14 (a) 100

15 (b) 50,000

17 25, 26, 27, 28, 29, 31, 32, 33, 34

18 45, 46, 47, 48, 49, 51, 52, 53, 54

19 smallest - 85 largest - 94

20 Smallest = 125 largest = 134