Chapter 1: Knowing Our Numbers, Class 11



# **CLASS NOTES-ANSWERS**

### EXERCISE 1.3

- 1. Estimate each of the following using general rules:
  - (a) 730 + 998 (b) 796 314
  - (c) 12904 + 2888 (d) 28292 21496

Make ten more such examples of addition, subtraction, and estimation

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#### Answer:

(a) 730 + 998

Nearest round off of 730 = 700

Nearest round off of 998 = 1000

Sum of 730 + 998 = 700 + 1000 = 1700

(b) 796 - 314

Nearest round off of 796 = 800

Nearest round off 314 = 300

Subtraction of 796 - 314 = 800 - 300 = 500

(c) 12904 + 2888

Nearest round off of 12904 = 13000

Nearest round off of 2888 = 3000

Sum of 12904 + 2888 = 13000 + 3000 = 16000

(d) 28292 - 21496



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Nearest round off of 28292 = 28000

Nearest round off of 21496 = 21000

Subtraction of 28292 - 21496 = 28000 - 21000 = 7000

Ten more such examples are

(i) 435 + 282 = 400 + 300 = 700(ii) 3986 + 5870 = 4000 + 6000 = 10000(iii) 7392 - 4789 = 7000 - 5000 = 2000(iv) 5160 - 2792 = 5000 - 3000 = 2000(v) 2195 + 1306 = 2000 + 1000 = 3000(vi) 1180 - 1382 = 1000 - 1000 = 0(vii) 920 + 565 = 900 + 600 = 1500(viii) 6410 - 4860 = 6000 - 5000 = 1000(ix) 3841 + 1450 = 4000 + 1000 = 5000(x) 6375 - 4229 = 6000 - 4000 = 2000

- 2. Give a rough estimate (by rounding off to nearest hundreds) and also a closer estimate (by rounding off to nearest tens):
  - (a) 439 + 334 + 4317 (b) 108734 47599
  - (c) 8325 491 (d) 489348 48365.

Make four more such examples.

#### Answer:



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(a) 439 + 334 + 4317

Round off of 439 to nearest hundreds = 400

Round off of 334 to nearest hundreds = 300

Round off of 4317 to nearest hundreds = 5000

Sum of 439 + 334 + 4317 = 400 + 300 + 4300 = 5000

Rounding off to nearest tens:

Rounding off to nearest ten of 439 = 440

Rounding off to nearest ten of 334 = 330

Rounding off to nearest ten of 4317 = 4320 Sum of (439 + 334 + 4317) to nearest ten = 440 + 330 + 4320 = 5090

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(b) 108734 - 47599
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Round off of 108734 to nearest hundreds = 108700

Round off of 47599 to nearest hundreds = 47600

Difference of (108734 - 47599) to nearest hundreds = 108700 - 47600

= 61100

Rounding off to nearest tens:

Rounding off to nearest ten of 108734 = 108730

Rounding off to nearest ten of 47599 = 47600

Rounding off to nearest ten of difference of (108734 - 47599)



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= 108730 - 47600 = 61130

(c) 8325 - 491

Round off to nearest hundreds is (8325 - 491) = (8300 - 500) = 7800

On rounding off to nearest tens we get (8325 - 491) = 8330 - 490 = 784

(d) 489348 - 48365

Round off to nearest hundreds is (489348 - 48365) = 489300 - 48400

= 440900

On rounding off to nearest tens (489348 - 48365) = 489350 - 48370

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= 440980

Four more examples are as follows:

(i) 4856 + 661

Rounding off to nearest hundreds4856 + 661 = 4800 + 700 = 5500

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Rounding off to nearest tens 4856 + 661 = 4850 + 660 = 5510

(ii) 772 - 389

Rounding off to nearest hundreds772 - 389 = 800 - 400 = 400

Rounding off to nearest tens772 - 389 = 780 - 390 = 390

(iii) 6365 - 2865

Rounding off to nearest hundreds 6365 - 2865 = 6400 - 2900 = 3500

Rounding off to nearest tens 6365 - 2865 = 6370 - 2870 = 3500



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(iv) 8245 - 6313

Rounding off to nearest hundreds 8245 - 6313 = 8200 - 6300 = 1900

Rounding off to nearest tens 8245 - 6313 = 8240 – 6310 = 1930

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- 3. Estimate the following products using general rule:
  - (a) 578 × 161 (b) 5281 × 3491
  - (c) 1291 × 592 (d) 9250 × 29.

Make four more such examples.

Answer:

(a) 578 × 161

578 and 161 can be rounded off to 600 and 200

On rounding off both the numbers, we get 600 and 200

600 × 200 = 120000

(b) 5281 × 3491

5281 and 3491 can be rounded off to 5000 and 3500

On rounding off both the numbers, we get 5000 and 3500

5000 × 3500 = 17500000

(c) 1291 × 592

1291 and 592 can be rounded off to 1300 and 600

On rounding off both the numbers, we get 1300 and 600

1300 × 600 = 780000



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(d) 9250 × 29

9250 and 29 can be rounded off to 9000 and 30

On rounding off both the numbers, we get 9000 and 30

9000 × 30 = 270000

Examples:

1)123 × 41 can be approximated as 120 × 40 = 4800

2)395 × 38 can be approximated as 400 × 40 = 16000

3)521 × 31 can be approximated as 500 × 30 = 15000

4) 1234 × 19 can be approximated as 1200 × 20 = 24000

