[10-10-12-IP5]

20. Round off each number and then estimate the value of

(a) $38 + 719 \approx$ (b) $346 + 659 \approx$

(c) $1042 + 6382 \approx$ (d) $7412 + 12{,}023 \approx$

(e) $13{,}979 + 23{,}200 \approx$ (f) $47{,}168 + 8985 \approx$

(g) $67{,}104 + 70{,}905 \approx$ (h) $93{,}206 + 81{,}047 \approx$

21. Round off each number and then estimate the value of

(a) $913 - 79 \approx$ (b) $867 - 387 \approx$

(c) $1005 - 682 \approx$ (d) $3443 - 1203 \approx$

(e) $7758 - 2081 \approx$ (f) $10{,}986 - 8029 \approx$

(g) $45{,}964 - 22{,}213 \approx$ (h) $89{,}006 - 61{,}794 \approx$

22. Estimate the value of

(a) $89 \times 7 \approx$ (b) $162 \times 8 \approx$

(c) $1735 \times 6 \approx$ (d) $6209 \times 5 \approx$

(e) $713 \times 8 \approx$ (f) $1986 \times 9 \approx$

(g) $9 \times 798 \approx$ (h) $61{,}856 \times 4 \approx$

23. Estimate the value of

(a) $97 \div 8 \approx$ (b) $421 \div 6 \approx$

(c) $3835 \div 5 \approx$ (d) $8888 \div 9 \approx$

(e) $1328 \div 3 \approx$ (f) $586 \div 4 \approx$

(g) $40{,}298 \div 8 \approx$ (h) $73{,}208 \div 7 \approx$

24. Work out these problems.

(a) House A, B and C have floor areas of 2489 m^2, 3234 m^2 and 6071 m^2 respectively. Estimate the total floor area of the three houses.

(b) In 2000, the population of a town, Burgundy, was 44,756. In 2001, the population had risen by 9873. Find the population of Burgundy in 2001 and round it off to the nearest thousand.

25. Multiply.

(a) $26 \times 10 =$

(b) $794 \times 10 =$

(c) $1426 \times 10 =$

(d) $7200 \times 50 =$

(e) $3210 \times 40 =$

(f) $624 \times 70 =$

26. Multiply.

(a) $68 \times 100 =$

(b) $404 \times 200 =$

(c) $1536 \times 100 =$

(d) $615 \times 300 =$

(e) $1200 \times 700 =$

(f) $3600 \times 600 =$

27. Multiply.

(a) $54 \times 1000 =$

(b) $49 \times 2000 =$

(c) $531 \times 1000 =$

(d) $610 \times 5000 =$

(e) $105 \times 8000 =$

(f) $960 \times 6000 =$

28. Estimate the value of each of the following.

(a) $36 \times 149 \approx$

(b) $634 \times 790 \approx$

(c) $3248 \times 519 \approx$

(d) $62 \times 805 \approx$

(e) $2417 \times 48 \approx$

(f) $2903 \times 68 \approx$

29. Work out these problems.

(a) Mr. Yap ordered two and a half dozen television sets. If each set cost $980, how much did he have to pay? Give your answer to the nearest thousand dollars.

(b) Mrs. Sweet sells 151 pieces of candy each day. Give an estimate of the total number of pieces of candy she will sell in 3 weeks.

(c) At a carnival, there are 117 stalls. If each stall makes a profit of $485 a day, about how much profit will all the stalls make in a day?

30. Divide.

(a) $60 \div 10 =$ (b) $940 \div 10 =$

(c) $1650 \div 10 =$ (d) $8400 \div 60 =$

(e) $3600 \div 90 =$ (f) $6370 \div 70 =$

31. Divide.

(a) $800 \div 100 =$ (b) $4500 \div 500 =$

(c) $1500 \div 100 =$ (d) $9600 \div 800 =$

(e) $10{,}500 \div 300 =$ (f) $28{,}800 \div 400 =$

32. Divide.

(a) $54{,}000 \div 1000 =$ (b) $92{,}000 \div 2000 =$

(c) $50{,}000 \div 1000 =$ (d) $48{,}000 \div 6000 =$

(e) $120{,}000 \div 5000 =$ (f) $450{,}000 \div 9000 =$

33. Estimate the value of each of the following.

(a) $263 \div 27 \approx$ (b) $1634 \div 78 \approx$

(c) $804 \div 19 \approx$ (d) $5520 \div 53 \approx$

(e) $21{,}948 \div 29 \approx$ (f) $12{,}903 \div 37 \approx$

Answers

Topic 1: Whole Numbers

1. (a) Six thousand, thirty-seven
   (b) Eighty-nine thousand, twenty-three
   (c) Nine hundred ninety-nine thousand, nine hundred ninety-nine
   (d) Three hundred five thousand, ten
   (e) Three million nine hundred forty-six thousand, two hundred thirty-eight.
   (f) Two hundred forty thousand, five hundred twenty-seven
2. (a) 9012 (b) 76,539
   (c) 100,100 (d) 1,100,010
   (e) 224,015 (f) 3,031,084
3. (a) hundreds (b) 2
   (c) 3 (d) tens
   (e) 200,000 (f) 1
   (g) ones, ten thousands
   (h) 100,000
4. (a) 12,372; 13,673; 16,273; 16,349
   (b) 19,032; 19,302; 38,090; 83,900
5. (a) 99,669; 96,669; 69,696; 69,669
   (b) 55,552; 55,255; 25,252; 25,225
6. (a) 32,168 (b) 91,560
   (c) 57,307 (d) 108,123
7. (a) 87,741 (b) 14,778
   (c) 14,787 (d) 87,714
8. (a) 9,643,210 (b) 1,023,469
   (c) 9,643,201 (d) 1,023,496
9. (a) 234,489 (b) 3442
   (c) 3000 (d) 62
   (e) 14,725 (f) 79,600
10. (a) 40,000 (b) 2300
    (c) 100,000 (d) 5700
    (e) 232,060 (f) 62,036
11. (a) 52,173 (b) 100
    (c) 37,099 (d) 81,383
    (e) 100 (f) 38,429
    (g) 77,489 (h) 38,686
    (i) 46,145 (j) 601,466
12. (a) 47,372 (b) 100
    (c) 53,484 (d) 48,613
    (e) 100 (f) 75,245
    (g) 91,778 (h) 23,421
    (i) 35,613 (j) 537,011
13. (a) 0 (b) 10
    (c) 50 (d) 800
    (e) 7310 (f) 20,000
    (g) 67,500 (h) 99,000
    (i) 43,300 (j) 7920
    (k) 350 (l) 70,620
14. (a) 0 (b) 100
    (c) 300 (d) 900
    (e) 3400 (f) 40,100
    (g) 73,900 (h) 9500
    (i) 900 (j) 7000
    (k) 8500 (l) 99,500
15. (a) 0 (b) 1000
    (c) 1000 (d) 2000
    (e) 3000 (f) 49,000
    (g) 3000 (h) 8000
    (i) 6000 (j) 10,000
    (k) 73,000 (l) 300,000
16. (a) 65; 74 (b) 385; 394
    (c) 5995; 6004 (d) 72,995; 73,004
17. (a) 250; 349 (b) 7450; 7549
    (c) 9950; 10,049 (d) 47,650; 47,749
18. (a) 500; 1499 (b) 5500; 6499
    (c) 34,500; 35,499
    (d) 90,500; 91,499
19. (a) 2350 kg; 2300 kg
    (b) $35,680; $36,000
    (c) 390,000 m; 390,000 m
    (d) 795,300 ml; 795,000 ml
20. (a) 740 (b) 1000
    (c) 7000 (d) 19,000
    (e) 37,000 (f) 56,000
    (g) 138,000 (h) 174,000
21. (a) 800 (b) 500
    (c) 300 (d) 2000
    (e) 6000 (f) 3000
    (g) 24,000 (h) 27,000
22. (a) 630 (b) 1600
    (c) 12,000 (d) 30,000
    (e) 5600 (f) 18,000
    (g) 7200 (h) 248,000
23. (a) 12 (b) 70
    (c) 800 (d) 1000
    (e) 400 (f) 150
    (g) 5000 (h) 10,000
24. (a) 11,000 m^2 (b) 54,629; 55,000
25. (a) 260 (b) 7940
    (c) 14,260 (d) 360,000
    (e) 128,400 (f) 43,680

26. (a) 6800 (b) 80,800
(c) 153,600 (d) 184,500
(e) 840,000 (f) 2,160,000

27. (a) 54,000 (b) 98,000
(c) 531,000 (d) 3,050,000
(e) 840,000 (f) 5,760,000

28. (a) 6000 (b) 480,000
(c) 1,500,000 (d) 48,000
(e) 100,000 (f) 210,000

29. (a) $29,000 (b) 3000 pieces of candy
(c) $60,000

30. (a) 6 (b) 94 (c) 165
(d) 140 (e) 40 (f) 91

31. (a) 8 (b) 9 (c) 15
(d) 12 (e) 35 (f) 72

32. (a) 54 (b) 46 (c) 50
(d) 8 (e) 24 (f) 50

33. (a) 10 (b) 20 (c) 40
(d) 120 (e) 700 (f) 300

34. (a) 30 containers (b) 150 curry puffs
(c) 60 months

35. (a) 50 (b) 98 (c) 40
(d) 92 (e) 61 (f) 174

36. (a) 168 (b) 216 (c) 4
(d) 3 (e) 28 (f) 42

37. (a) 34 (b) 3 (c) 102
(d) 52 (e) 92 (f) 22

38. (a) 52 (b) 11 (c) 128
(d) 4 (e) 5 (f) 32
(g) 14 (h) 6

39. (a) 66 (b) 7 (c) 50
(d) 0 (e) 28 (f) 323
(g) 38 (h) 14

40. (a) 27 (b) 8

41. (a) 10 (b) 8
(c) 25 (d) 28

42. (a) $5 \times 5 \times (5 \div 5)$
or
$5 \times 5 + 5 - 5$

(b) $5 + 5 - 5 - 5$
or
$(5 - 5) \times (5 - 5)$
or
$(5 + 5) \times (5 - 5)$
or
$(5 \times 5) \times (5 - 5)$
or
$5 \times (5 - 5) \div 5$

43. (a) 4, 5, 3 (b) 15, 12, 3
(c) 12, 15, 5 (d) 5, 4, 3

44. (a)
3578
5378
3758
7358
5738
7538
6 even numbers

(b)
8753	3785	5837
7853	7385	8537
8573	3875	3857
5873	8375	8357
5783	7835	3587
7583	8735	5387

18 odd numbers

(c) $3 + 5 + 7 = 15$, $3 + 7 + 8 = 18$ } Sum of digits divisible by 3

378	738	837
387	783	873
357	537	735
375	573	753

12 numbers

Word Problems

1. $23 2. $120 3. 20 bottles
4. $490 5. $7000
6. 10 spiders; 18 grasshoppers
7. 315 oranges 8. 96 peanuts
9. $180 10. 3030 coins
11. 171 coins
12. Kathy → 55 years old
Nina → 63 years old
Tess → 71 years old
13. Cindy → $30.50
Barry → $152.50
Andy → $215.50
Daisy → $215.50
14. 82 children, 112 adults
15. 24 small bottles

Take the Challenge!

1. 888, 88, 8, 8, 8 2. 24
3. (a) Some possible expressions:
$(9 \times 9) + (9 + 9) + (9 \div 9)$,
$99 \div 99 + 99$,
$99 \times 9 \div 9 + 9 \div 9$.
(b) One possible expression:
$777 \div 7 - 7 \div 7$