

Tuesday

$$3,565 + 2,250 = 5,815$$

True or False?

$$4,565 + 1,250 = 5,815$$

$$5,815 - 2,250 = 3,565$$

$$4,815 - 2,565 = 2,250$$

$$4,065 + 2,750 = 6,315$$

MENTAL STRATEGIES

30

TARGET To develop strategies to work out mental calculations.

Just do the + and - questions

ADDITION AND SUBTRACTION

Partitioning

$643 + 270$

$643 + 200 + 70$

$843 + 70$

913

Adjusting

$8.5 - 3.9$

$8.5 - 4.0 + 0.1$

$4.5 + 0.1$

4.6

Counting Up

$7003 - 4964$

$4964 \rightarrow 4970 \quad 6$

$4970 \rightarrow 5000 \quad 30$

$5000 \rightarrow 7003 \quad 2003$

$7003 - 4964 = 2039$

Near Doubles

$6.9 + 7.2$

$(7 \times 2) - 0.1 + 0.2$

$14 - 0.1 + 0.2$

$14 + 0.1$

14.1

MULTIPLICATION AND DIVISION

Using factors

26×18

$26 \times 2 \times 3 \times 3$

$52 \times 3 \times 3$

156×3

468

Partitioning

7.4×7

$(7 \times 7) + (0.4 \times 7)$

$49 + 2.8$

51.8

Doubling/halving

36×15

$(36 \times 30) \div 2$

$1080 \div 2$

540

Multiply By 49/51 etc.

19×51

$(19 \times 50) + (19 \times 1)$

$950 + 19$

969

A

Choose one method for each group of six problems.

1 7×19

2 13×21

3 15×19

4 18×21

5 22×19

6 16×21

7 $2.4 + 1.1$

8 $5.8 - 1.1$

9 $8.3 + 0.9$

10 $6.7 - 0.9$

11 $3.5 - 1.1$

12 $9.2 + 0.9$

13 $403 - 195$

14 $807 - 472$

15 $702 - 281$

16 $5000 - 1991$

17 $9000 - 4984$

18 $6008 - 3996$

19 13×6

20 16×8

21 17×9

22 $180 \div 12$

23 $240 \div 15$

24 $216 \div 12$

25 $39 + 42$

26 $73 + 68$

27 $47 + 51$

28 $3.4 + 3.3$

29 $2.3 + 2.1$

30 $4.9 + 5.2$

31 24×5

32 35×5

33 28×50

34 17×50

35 6×15

36 14×15

37 37×4

38 56×5

39 29×6

40 45×7

41 24×8

42 38×9

43 $134 + 52$

44 $327 + 44$

45 $265 + 38$

46 $582 - 64$

47 $337 - 46$

48 $415 - 78$

B

Choose one method for each group of six problems.

1 27×15

2 36×15

3 23×25

4 38×25

5 14×26

6 18×38

7 $304 + 298$

8 $197 + 202$

9 $403 + 395$

10 $3.9 + 3.7$

11 $4.8 + 5.3$

12 $3.3 + 2.9$

13 22×14

14 19×27

15 23×21

16 $252 \div 18$

17 $408 \div 24$

18 $288 \div 16$

19 $705 - 477$

20 $921 - 394$

21 $617 - 272$

22 $8000 - 3588$

23 $5004 - 2963$

24 $9018 - 5949$

25 $5700 + 2800$

26 $0.4 + 0.32$

27 $0.57 + 0.26$

28 $9300 - 4600$

29 $0.7 - 0.24$

30 $0.82 - 0.58$

31 13×49

32 18×51

33 22×49

34 14×101

35 17×99

36 23×101

37 $4.5 + 1.9$

38 $7.3 - 2.9$

39 $5.6 + 4.1$

40 $9.8 - 2.1$

41 $3.4 + 3.9$

42 $6.7 - 4.1$

43 54×6

44 87×8

45 73×9

46 6.5×7

47 4.9×8

48 9.7×6

31

C

Choose one method for each group of six problems.

1 $\square - 30.5 = 29.7$

2 $\square - 18.3 = 20.1$

3 $\square - 41.2 = 39.5$

4 $\square - 48.9 = 51.4$

5 $\square - 29.4 = 31.6$

6 $\square - 38.2 = 40.3$

7 34×14

8 2.7×18

9 4.9×15

10 56×2.5

11 35×4.8

12 45×3.9

13 $\square + 3800 = 7100$

14 $\square + 7.6 = 18.35$

15 $\square + 0.53 = 2.17$

16 $\square - 4500 = 8800$

17 $\square - 5.7 = 9.46$

18 $\square - 0.38 = 0.92$

19 16×5.4

20 21×2.7

21 12×0.63

22 $4.9 \div 14$

23 $50.4 \div 24$

24 $4.32 \div 18$

25 $\square + 4.2 = 7.4$

26 $\square + 5.9 = 9.6$

27 $\square + 4.8 = 5.3$

28 $\square + 6.1 = 11.7$

29 $\square + 3.9 = 4.8$

30 $\square + 7.2 = 8.5$

31 $\square \div 7 = 4.8$

32 $\square \div 9 = 7.6$

33 $\square \div 8 = 5.9$

34 $\square \div 6 = 6.7$

35 $\square \div 7 = 9.5$

36 $\square \div 9 = 8.3$

37 $6200 - \square = 2874$

38 $8100 - \square = 3762$

39 $9300 - \square = 5696$

40 $7200 - \square = 4783$

41 $8400 - \square = 3679$

42 $9100 - \square = 4885$

43 $\square \div 29 = 17$

44 $\square \div 41 = 13$

45 $\square \div 59 = 16$

46 $\square \div 31 = 19$

47 $\square \div 39 = 14$

48 $\square \div 61 = 18$

2 273	14 335	26 141	38 280
3 285	15 421	27 98	39 174
4 378	16 3009	28 6.7	40 315
5 418	17 4016	29 4.4	41 192
6 336	18 2012	30 10.1	42 342
7 3.5	19 78	31 120	43 186
8 4.7	20 128	32 175	44 371
9 9.2	21 153	33 1400	45 303
10 5.8	22 15	34 850	46 518
11 2.4	23 16	35 90	47 291
12 10.1	24 18	36 210	48 337

Page 31

B

1 405	13 308	25 8500	37 6.4
2 540	14 513	26 0.72	38 4.4
3 575	15 483	27 0.83	39 9.7
4 950	16 14	28 4700	40 7.7
5 364	17 17	29 0.46	41 7.3
6 684	18 18	30 0.24	42 2.6
7 602	19 228	31 637	43 324
8 399	20 527	32 918	44 696
9 798	21 345	33 1078	45 657
10 7.6	22 4412	34 1414	46 45.5
11 10.1	23 2041	35 1682	47 39.2

1 60.2	13 3300	25 3.2	37 3326
2 38.4	14 10.75	26 3.7	38 4338
3 80.7	15 1.64	27 0.5	39 3604
4 100.3	16 13 300	28 5.6	40 2417
5 61	17 15.16	29 0.9	41 4721
6 78.5	18 1.3	30 1.3	42 4215
7 476	19 86.4	31 33.6	43 493
8 48.6	20 56.7	32 68.4	44 533
9 73.5	21 7.56	33 47.2	45 944
10 140	22 0.35	34 40.2	46 589
11 168	23 2.1	35 66.5	47 546
12 175.5	24 0.24	36 74.7	48 1098

ANSWERS