# MATHEMATICS

## N.S. Yr. 5   P.43

**Using relationships between addition and subtraction and adding several numbers.**

# Equipment

Paper, pencil, calculator.

# MathSphere

## Concepts

Children should know that if one of the following facts are known, the others can be deduced without further calculation:

$275 + 184 = 459$          $184 + 275 = 459$

$459 - 184 = 275$          $459 - 275 = 184$

Using easier numbers or numbers with one decimal place, they should be able to calculate one of the combinations mentally and then state the other three.

Given a set of numbers such as 629,  255,  682 and 630, they should be able to write down and calculate several combinations of these numbers in addition and subtraction sums, some with just two of the numbers such as $629 + 255$ and some with more such as $255 + 682 + 630$.

They should be able to add together quickly several small numbers such as $5 + 12 + 10 + 7$ and should spot pairs of numbers that make 10 or 100. They should also be able to add three multiples of 10 such as $50 + 20 + 70$.

They should also be able to spot equivalences such as '$36 + 38 + 40 + 42 + 44$  is the same as five forties'.

Lastly, children should be able to explain their methods and show that they have used shortcuts and logical techniques to arrive at their answers.

If you know that $156 + 230 = 386$, you can say straight away that $230 + 156 = 386$.
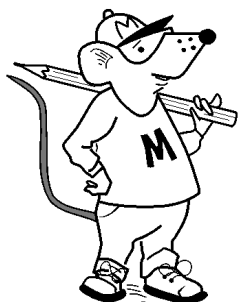
Yes, but did you know that this also means that $386 – 156 = 230$ and that $386 – 230 = 156$ ?

In these questions, you are told one fact about a sum. Write down three others without doing any more sums. The first one is done for you.

1. $540 + 120 = 660$
   This means that **$120 + 540 = 660$,   $660 – 120 = 540$ and $660 – 540 = 120$**

2. $93 + 254 = 347$

3. $545 + 246 = 791$

4. $261 + 734 = 995$

5. $409 + 503 = 912$

6. $328 + 241 = 569$

7. $363 – 284 = 79$

8. $698 – 467 = 231$

9. $483 – 288 = 195$

10. $700 – 537 = 163$

11. $478 – 235 = 243$

12. $580 – 193 = 387$

Lots of practice makes learning these ideas much easier.

One day, you will be as quick as me!

Two tens are twenty.

See, I told you I was quick!

Don't forget, if you know that $734 + 132 = 866$,
you can  say straight away that $132 + 734 = 866$.

Great! Remember too that this
also means that
$866 – 734 = 132$ and that
$866 – 132 = 734$.

In these questions, you are told one fact about a sum. Write down three others
without doing any more sums. The first one is done for you.

**1.**  $548 + 423 = 971$
This means that **$423 + 548 = 971$,   $971 – 423 = 548$** and **$971 – 548 = 423$**

**2.**  $472 + 381 = 853$

**3.**  $690 + 151 = 841$

These are quite simple really. Just be careful
when you write down the answers.

**4.**  $264 + 328 = 592$

**5.**  $637 + 199 = 836$

**6.**  $472 + 465 = 937$

**7.**  $642 – 183 = 459$

**8.**  $673 – 264 = 409$

**9.**  $522 – 263 = 259$

**10.**  $622 – 323 = 299$

**11.**  $194 – 173 = 21$

**12.**  $638 – 579 = 59$

In these questions, you need to work out the answer first and then write down three similar facts.

The first one is done for you. Aren't we generous?

1. Find $102 + 23$
   $102 + 23 = 125$.
   This means that $\mathbf{23 + 102 = 125}$,   $\mathbf{125 - 23 = 102}$ and $\mathbf{125 - 102 = 23}$

2. Find $99 + 57$

3. Find $120 - 45$

4. Find $48 + 56$

Fact number one: I can stand on one leg.
Fact number two: You probably can too.

5. Find $400 - 35$

6. Find $37 + 230$

7. Find $9.8 - 2.7$

8. Find $4.6 + 12.3$

9. Find $8.8 - 3.4$

10. Find $12.3 + 4.5$

11. Find $9.4 - 4.2$

12. Find $12.6 + 5.7$

In these questions, you need to work out the answer first and then write down three similar facts.

As usual, we have done the first one for you.

**1.** Find 450 – 38
    450 – 38 = 412.
    This means that **450 – 412 = 38,   38 + 412 = 450** and **412 + 38 = 450**

**2.** Find 912 + 50

**3.** Find 103 – 12

Crikey, these are straining my brain.

**4.** Find 32 + 19

**5.** Find 280 – 150

**6.** Find 320 + 21

**7.** Find 8.9 – 3.5

**8.** Find 13.8 + 3.6

**9.** Find 12.8 – 5.7

**10.** Find 34.4 + 2.3

**11.** Find 20.0 – 2.5

**12.** Find 14.6 + 2.7
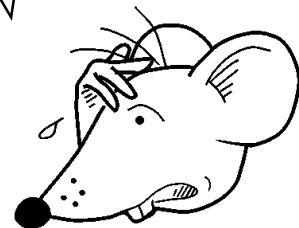
Without doing any working, answer the following questions:

**1.** If  $9.6 + 12.8 = 22.4$, what is $22.4 - 9.6$ ?

**2.** If  $478 + 329 = 807$, what is   $329 + 478$ ?

**3.** If  $23.9 - 8.5 = 15.4$, what is $15.4 + 8.5$ ?

**4.** If  $377 + 269 = 646$, what is $646 - 269$ ?

**5.** If  $8.9 + 5.3 = 14.2$, what is $14.2 - 8.9$ ?

**6.** If  $500 - 317 = 183$, what is $183 + 317$ ?

**7.** If  $32.5 - 7.9 = 24.6$, what is $7.9 + 24.6$ ?

**8.** If  $621 - 427 = 194$, what is $621 - 194$ ?

**9.** If  $5.8 + 1.2 = 7.0$, what is $7.0 - 1.2$ ?

**10.** If  $873 + 214 = 1\ 087$, what is $214 + 873$ ?

**11.** If  $6.8 - 1.9 = 4.9$, what is $6.8 - 4.9$ ?

**12.** If  $734 + 232 = 966$, what is $966 - 734$ ?

**13.** If  $5.8 - 3.7 = 2.1$, what is $2.1 + 3.7$ ?

**14.** If  $678 + 322 = 1\ 000$, what is $1\ 000 - 678$ ?

**15.** If  $13.8 + 9.7 = 23.5$, what is $23.5 - 9.7$ ?

**16.** If  $458 + 373 = 831$, what is $831 - 373$ ?

**17.** If  $22.9 + 16.8 = 39.7$, what is $39.7 - 22.9$ ?

**18.** If  $577 + 235 = 812$, what is $812 - 235$ ?

**19.** If  $47.3 - 6.8 = 40.5$, what is $47.3 - 40.5$ ?

**20.** If  $890 - 734 = 156$, what is $890 - 156$ ?

Timing a page can make it more interesting.

What will you need to do this?
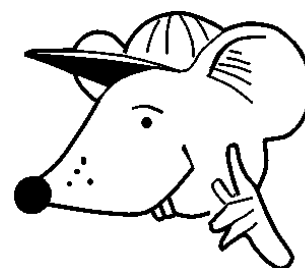
Without doing any working, answer the following questions:

**1.** If $4.6 + 2.3 = 6.9$, what is $6.9 - 4.6$ ?

**2.** If $569 - 387 = 182$, what is $182 + 387$ ?

**3.** If $12.7 - 6.9 = 5.8$, what is $6.9 + 5.8$ ?

**4.** If $382 - 289 = 93$, what is $93 + 289$ ?

**5.** If $56.8 - 23.6 = 33.2$, what is $56.8 - 33.2$ ?

**6.** If $529 + 67 = 596$, what is $596 - 529$ ?

**7.** If $13.6 - 11.7 = 1.9$, what is $1.9 + 11.7$ ?

**8.** If $90 - 23 = 67$, what is $67 + 23$ ?

**9.** If $8.5 + 9.5 = 18.0$, what is $18.0 - 9.5$ ?

**10.** If $277 + 377 = 654$, what is $654 - 277$ ?

**11.** If $9.5 + 4.8 = 14.3$, what is $4.8 + 9.5$ ?

**12.** If $486 + 326 = 812$, what is $812 - 326$ ?

**13.** If $8.5 - 3.6 = 4.9$, what is $8.5 - 4.9$ ?

**14.** If $738 - 399 = 339$, what is $339 + 399$ ?

**15.** If $13.8 - 7.5 = 6.3$, what is $6.3 + 7.5$ ?

**16.** If $642 - 586 = 56$, what is $642 - 56$ ?

**17.** If $9.9 - 4.5 = 5.4$, what is $4.5 + 5.4$ ?

**18.** If $673 + 289 = 962$, what is $962 - 289$ ?

**19.** If $54.7 + 4.8 = 59.5$, what is $4.8 + 54.7$ ?

**20.** If $990 - 285 = 705$, what is $705 + 285$ ?

See if you can beat your time for page 7.
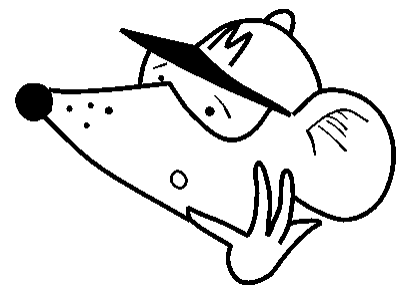
Use two of the numbers at a time and write four different addition sums for each question.
Don't forget to work out the answers!

**1.** 457,  243,  260,  600

**2.** 680,  900,  235,  438

**3.** 400,  230,  132,  560

**4.** 463,  462,  490,  143

**5.** 430,  280,  120,  320

**6.** 452,  132,  200,  350

**7.** 340,  530,  200,  142

**8.** 450,  423,  634,  520

For example, in question 1 you could have any four of:

457 + 243,   457 + 260,   457 + 600,
243 + 260,   243 + 600,   260 + 600,
and then they can be reversed such as
243 + 457 ...

You can use a calculator to check your answers.
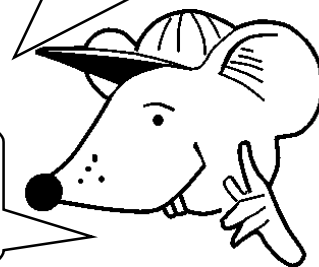
Now use two numbers at a time to make some subtraction sums.
Make sure the second number is smaller than the first.

 **9.** 650,  234,  570,  438

**10.** 113,  342,  360,  900

**11.** 400,  132,  427,  320

**12.** 328,  426,  176,  500

**13.** 450,  102,  404,  390

**14.** 420,  639,  450,  238

**15.** 529,  450,  352,  632

**16.** 890,  453,  525,  900

In number 9 you could have
650 – 234,   570 – 438,   438 – 234
and so on.

Use two of the numbers at a time and write four different addition sums for each question.
Don't forget to work out the answers!

**1.** 237,  842,  270,  133

**2.** 230,  319,  830,  340

**3.** 349,  311,  500,  472

**4.** 354,  263,  534,  367

**5.** 320,  540,  345,  400

**6.** 430,  667,  354,  333

**7.** 900,  354,  511,  845

**8.** 643,  933,  300,  200

For example, in question 1 you could have any four of:

237 + 842,   237 + 270,   237 + 133, 842 + 270,   842 + 133,   270 + 133, and then they can be reversed such as 842 + 237 ...

You can use a calculator to check your answers.

Now use two numbers at a time to make some subtraction sums.
Make sure the second number is smaller than the first.

**9.**  944,  433,  634,  233

**10.** 755,  633,  744,  833

**11.** 733,  274,  833,  466

**12.** 833,  944,  477,  78

**13.** 834,  945,  533,  855

**14.** 433,  855,  590,  380

**15.** 222,  333,  444,  555

**16.** 700,  900,  350,  250

In number 9 you could have 944 – 433,   433 – 233,   634 – 433 and so on.
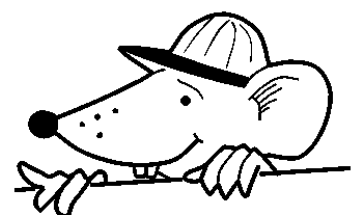
Without doing any written working, answer the following questions:

**1.** $9 + 10 + 6 + 4$

**2.** $70 + 80 + 10$

**3.** $30 + 30 + 20$

**4.** $3 + 2 + 5 + 6$

**5.** $9 + 12 + 6 + 4$

**6.** $20 + 60 + 50$

**7.** $10 + 40 + 40$

**8.** $5 + 3 + 3 + 6$

**9.** $2 + 9 + 5 + 7$

**10.** $80 + 50 + 30$

**11.** $20 + 40 + 20$

**12.** $4 + 8 + 4 + 9 + 3$

**13.** $4 + 6 + 6 + 3 + 5$

**14.** $50 + 90 + 10$

**15.** $40 + 40 + 40$

**16.** $3 + 6 + 7 + 6$

**17.** $3 + 9 + 42$

**18.** $5 + 5 + 6 + 4$

**19.** $20 + 30 + 20$

**20.** $9 + 4 + 7 + 8$

See how quickly you can do these.
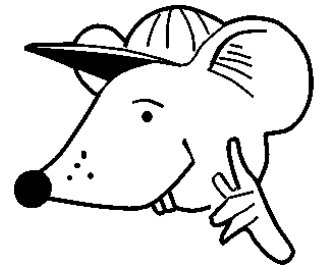
Without doing any written working, answer the following questions:

   **1.** $90 + 10 + 40$

   **2.** $5 + 3 + 12 + 10$

   **3.** $6 + 4 + 9 + 3$

   **4.** $20 + 40 + 20$

   **5.** $60 + 60 + 60$

   **6.** $4 + 6 + 4 + 6$

   **7.** $40 + 30 + 40$

   **8.** $9 + 12 + 4$

   **9.** $6 + 4 + 9$

**10.** $4 + 13 + 8 + 2$

**11.** $30 + 60 + 10$

**12.** $20 + 50 + 30$

**13.** $7 + 4 + 9$

**14.** $8 + 5 + 8 + 7$

**15.** $5 + 6 + 4 + 9 + 7$

**16.** $40 + 40 + 50$

**17.** $5 + 8 + 6 + 9 + 5$

**18.** $5 + 5 + 9 + 6 + 7$

**19.** $5 + 5 + 9 + 6 + 4$

**20.** $40 + 60 + 30$

See how quickly you can do these.
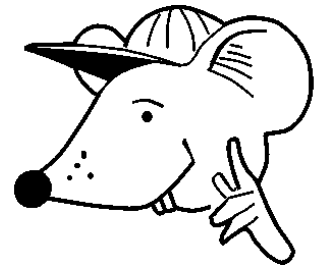
Say which numbers go in the boxes:

**1.** $9 + \boxed{\phantom{00}} = 30 + 7$

**2.** $8 + 12 + 9 + \boxed{\phantom{00}} = 42$

**3.** $\boxed{\phantom{00}} + 10 + 20 = 70$

**4.** $80 + \boxed{\phantom{00}} = 150$

**5.** $30 + 20 + 17 = \boxed{\phantom{00}}$

**6.** $90 + \boxed{\phantom{00}} + 17 = 140$

**7.** $40 + 30 + \boxed{\phantom{00}} = 99$

**8.** $45 + 36 + 80 = \boxed{\phantom{00}}$

**9.** $4 + 8 + 6 + \boxed{\phantom{00}} = 90$

**10.** $12 + 30 + 5 + 6 = \boxed{\phantom{00}}$

**11.** $90 + 10 + \boxed{\phantom{00}} = 40 + 40 + 40$

**12.** $4 + 56 + 20 + 30 = \boxed{\phantom{00}}$

Don't forget to look for shortcuts with this type of work.

Say which numbers go in the boxes:

**1.** $9 + \boxed{\phantom{00}} = 15 + 7$

**2.** $3 + 12 + 7 + \boxed{\phantom{00}} = 60$

**3.** $\boxed{\phantom{00}} + 4 + 8 = 30$

**4.** $20 + \boxed{\phantom{00}} = 110 + 90$

**5.** $80 + 34 + 12 = \boxed{\phantom{00}}$

**6.** $10 + \boxed{\phantom{00}} + 12 = 78$

**7.** $65 + 39 + \boxed{\phantom{00}} = 144$

**8.** $74 + 12 + 40 = \boxed{\phantom{00}}$

**9.** $50 + 55 + \boxed{\phantom{00}} = 130$

**10.** $80 + 32 + 8 + 3 = \boxed{\phantom{00}}$

**11.** $80 + 70 + \boxed{\phantom{00}} = 130 + 50$

**12.** $8 + 22 + 40 + 48 = \boxed{\phantom{00}}$

Work very carefully with these questions. Look for short cuts.

Without doing any written working, answer the following questions:

1. $9 + 5 + 15$

2. $6 + 5 + 10$

3. $8 + 3 + 2 + 9$

4. $19 + 2 + 6 + 3$

5. $56 + 5 + 9 + 3$

6. $18 + 3 + 2 + 8$

7. $14 + 6 + 7 + 4 + 4$

8. $9 + 2 + 6 + 4$

9. $8 + 4 + 7 + 3$

10. $4 + 2 + 5 + 7$

11. $13 + 6 + 12 + 9$

12. $34 + 5 + 7 + 3$

13. $80 + 4 + 6 + 5$

14. $9 + 12 + 12 + 9$

15. $8 + 5 + 2 + 5$

16. $45 + 11 + 4 + 12$

17. $9 + 11 + 30$

18. $15 + 7 + 8$

19. $9 + 12 + 9$

20. $9 + 5 + 42$

Look for shortcuts to help you.

Without doing any written working, answer the following questions:

**1.** $12 + 10 + 8$

**2.** $9 + 2 + 8$

**3.** $60 + 5 + 5 + 4$

**4.** $6 + 3 + 9 + 2$

**5.** $34 + 6 + 5 + 6$

**6.** $13 + 5 + 7 + 5$

**7.** $14 + 6 + 8 + 3 + 7$

**8.** $15 + 6 + 9 + 4$

**9.** $4 + 8 + 2 + 16$

**10.** $4 + 16 + 9 + 4$

**11.** $8 + 4 + 12 + 16$

**12.** $80 + 5 + 5 + 5$

**13.** $34 + 6 + 4 + 6$

**14.** $9 + 2 + 5 + 6$

**15.** $32 + 18 + 9 + 11$

**16.** $45 + 6 + 4 + 20$

**17.** $67 + 2 + 8$

**18.** $12 + 18 + 6$

**19.** $90 + 2 + 2 + 8$

**20.** $23 + 8 + 9 + 7$

Look for pairs of numbers that add up to 9 or 11 to help you.

Without doing any written working, answer the following questions:

**1.** $8 + 10 + 12$

**2.** $9 + 11 + 13$

**3.** $5 + 10 + 15$

**4.** $5 + 10 + 15 + 20 + 25$

**5.** $12 + 14 + 16$

**6.** $8 + 10 + 12 + 14 + 16$

**7.** $10 + 20 + 30$

**8.** $10 + 20 + 30 + 40 + 50$

**9.** $18 + 20 + 22$

**10.** $24 + 25 + 26 + 27 + 28$

**11.** $9 + 12 + 15 + 18 + 21$

**12.** $10 + 14 + 18$

**13.** $37 + 38 + 39 + 40 + 41$

**14.** $33 + 36 + 39 + 42 + 45$

**15.** $8 + 13 + 18$

**16.** $40 + 60 + 80$

**17.** $40 + 60 + 80 + 100 + 120$

**18.** $9 + 12 + 15$

**19.** $50 + 55 + 60 + 65 + 70$

**20.** $10 + 12 + 14 + 16 + 18$

Look for patterns in the numbers that may help you.
E.g. Number 1 is the same as three tens, so the answer must be 30.

Easy, don't you think?

Without doing any written working, answer the following questions:

  **1.** 40 + 41 + 42

  **2.** 9 + 10 + 11

  **3.** 15 + 17 + 19 + 21 + 23

  **4.** 12 + 14 + 16

  **5.** 12 + 14 + 16 + 18 + 20

  **6.** 56 + 57 + 58 + 59 + 60

  **7.** 80 + 90 + 100

  **8.** 34 + 36 + 38

  **9.** 20 + 22 + 24 + 26 + 28

**10.** 10 + 15 + 20 + 25 + 30

**11.** 40 + 42 + 44 + 46 + 48

**12.** 42 + 45 + 48

**13.** 42 + 45 + 48 + 51 + 54

**14.** 60 + 65 + 70

**15.** 25 + 20 + 15

**16.** 40 + 30 + 20

**17.** 14 + 8 + 2

**18.** 50 + 45 + 40

**19.** 50 + 45 + 40 + 35 + 30

**20.** 90 + 80 + 70 + 60 + 50

Look for patterns in the numbers that may help you.
E.g. Number 1 is the same as three forty-ones, so the answer must be 123.

Stand on your head!

Good expression. Did you just think of that, Divvy.

Yes, I did.

# Answers

### Page 3
**1.** 120 + 540 = 660,       660 – 120 = 540   and     660 – 540 = 120
**2.** 254 +  93 = 347,       347 – 254 =  93   and     347 –  93 = 254
**3.** 246 + 545 = 791,       791 – 246 = 545   and     791 – 545 = 246
**4.** 734 + 261 = 995,       995 – 734 = 261   and     995 – 261 = 734
**5.** 503 + 409 = 912,       912 – 503 = 409   and     912 – 409 = 503
**6.** 241 + 328 = 569,       569 – 241 = 328   and     569 – 328 = 241
**7.** 363 –  79 = 284,        79 + 284 = 363   and     284 +  79 = 363
**8.** 698 – 231 = 467,       231 + 467 = 698   and     467 + 231 = 698
**9.** 483 – 195 = 288,       195 + 288 = 483   and     288 + 195 = 483
**10.** 700 – 163 = 537,       163 + 537 = 700   and     537 + 163 = 700
**11.** 478 – 243 = 235,       243 + 235 = 478   and     235 + 243 = 478
**12.** 580 – 387 = 193,       387 + 193 = 580   and     193 + 387 = 580

### Page 4
**1.** 423 + 548 = 971,       971 – 423 = 548   and     971 – 548 = 423
**2.** 381 + 472 = 853,       853 – 381 = 472   and     853 – 472 = 381
**3.** 151 + 690 = 841,       841 – 151 = 690   and     841 – 690 = 151
**4.** 328 + 264 = 592,       592 – 328 = 264   and     592 – 264 = 328
**5.** 199 + 637 = 836,       836 – 199 = 637   and     836 – 637 = 199
**6.** 465 + 472 = 937,       937 – 465 = 472   and     937 – 472 = 465
**7.** 642 – 459 = 183,       459 + 183 = 642   and     183 + 459 = 642
**8.** 673 – 409 = 264,       409 + 264 = 673   and     264 + 409 = 673
**9.** 522 – 259 = 263,       259 + 263 = 522   and     263 + 259 = 522
**10.** 622 – 299 = 323,       299 + 323 = 622   and     323 + 299 = 622
**11.** 194 –  21 = 173,        21 + 173 = 194   and     173 +  21 = 194
**12.** 638 –  59 = 579,        59 + 579 = 638   and     579 +  59 = 638

### Page 5
**1.**    125;    23 + 102 = 125,       125 –  23 =  102   and       125 –  102 =  23
**2.**    156;    57 + 99 = 156,       156 –  99 =   57   and       156 –   57 =  99
**3.**     75;   120 – 75 = 45,         75 +  45 =  120   and        45 +   75 = 120
**4.**    104;    56 + 48 = 104,       104 –  48 =   56   and       104 –   56 =  48
**5.**    365;   400 – 365 = 35,       365 +  35 =  400   and        35 +  365 = 400
**6.**    267;   230 + 37 = 267,       267 –  37 =  230   and       267 –  230 =  37
**7.**    7.1;   9.8 – 7.1 = 2.7,       7.1 +  2.7 =  9.8   and       2.7 +  7.1 = 9.8
**8.**   16.9;  12.3 + 4.6 = 16.9,      16.9 –  4.6 = 12.3   and      16.9 – 12.3 = 4.6
**9.**    5.4;   8.8 – 5.4 = 3.4,       5.4 +  3.4 =  8.8   and       3.4 +  5.4 = 8.8
**10.**   16.8;   4.5 + 12.3 = 16.8,     16.8 – 12.3 =  4.5   and      16.8 –  4.5 = 12.3
**11.**    5.2;   9.4 – 5.2 = 4.2,       5.2 +  4.2 =  9.4   and       4.2 +  5.2 = 9.4
**12.**   18.3;   5.7 + 12.6 = 18.3,     18.3 – 12.6 =  5.7   and      18.3 –  5.7 = 12.6

# Answers (Contd)

**Page 6**
| | | | | | |
|---|---|---|---|---|---|
| **1.** | 412; | 450 – 412 = 38, | 38 + 412  =  450 | and | 412 + 38 = 450 |
| **2.** | 962; | 50 + 912 = 962, | 962 – 50 = 912 | and | 962 – 912 = 50 |
| **3.** | 91; | 103 – 91 = 12, | 91 + 12 = 103 | and | 12 + 91 = 103 |
| **4.** | 51; | 19 + 32 = 51, | 51 – 19 = 32 | and | 51 – 32 = 19 |
| **5.** | 130; | 280 – 130 = 150, | 130 + 150 = 280 | and | 150 + 130 = 280 |
| **6.** | 341; | 21 + 320 = 341, | 341 – 21 = 320 | and | 341 – 320 = 21 |
| **7.** | 5.4; | 8.9 – 5.4 = 3.5, | 5.4 + 3.5 = 8.9 | and | 3.5 + 5.4 = 8.9 |
| **8.** | 17.4; | 3.6 + 13.8 = 17.4, | 17.4 – 3.6 = 13.8 | and | 17.4 – 13.8 = 3.6 |
| **9.** | 7.1; | 12.8 – 7.1 = 5.7, | 7.1 + 5.7 = 12.8 | and | 5.7 + 7.1 = 12.8 |
| **10.** | 36.7; | 2.3 + 34.4 = 36.7, | 36.7 – 2.3 = 34.4 | and | 36.7 – 34.4 = 2.3 |
| **11.** | 17.5; | 20.0 – 17.5 = 2.5, | 17.5 + 2.5 = 20.0 | and | 2.5 + 17.5 = 20.0 |
| **12.** | 17.3; | 2.7 + 14.6 = 17.3, | 17.3 – 14.6 = 2.7 | and | 17.3 – 2.7 = 14.6 |

**Page 7**
| | | | | | | |
|---|---|---|---|---|---|---|
| **1.** 12.8 | **2.** 807 | **3.** 23.9 | **4.** 377 | **5.** 5.3 | **6.** 500 | **7.** 32.5 |
| **8.** 427 | **9.** 5.8 | **10.** 1 087 | **11.** 1.9 | **12.** 232 | **13.** 5.8 | **14.** 322 |
| **15.** 13.8 | **16.** 458 | **17.** 16.8 | **18.** 577 | **19.** 6.8 | **20.** 734 | |

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|---|---|---|---|---|---|---|
| **1.** 2.3 | **2.** 569 | **3.** 12.7 | **4.** 382 | **5.** 23.6 | **6.** 67 | **7.** 13.6 |
| **8.** 90 | **9.** 8.5 | **10.** 377 | **11.** 14.3 | **12.** 486 | **13.** 3.6 | **14.** 738 |
| **15.** 13.8 | **16.** 586 | **17.** 9.9 | **18.** 673 | **19.** 59.5 | **20.** 990 | |

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|---|---|---|---|---|---|---|
| **1.** 29 | **2.** 160 | **3.** 80 | **4.** 16 | **5.** 31 | **6.** 130 | **7.** 90 |
| **8.** 17 | **9.** 23 | **10.** 160 | **11.** 80 | **12.** 28 | **13.** 24 | **14.** 150 |
| **15.** 120 | **16.** 22 | **17.** 54 | **18.** 20 | **19.** 70 | **20.** 28 | |

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|---|---|---|---|---|---|---|
| **1.** 140 | **2.** 30 | **3.** 22 | **4.** 80 | **5.** 180 | **6.** 20 | **7.** 110 |
| **8.** 25 | **9.** 19 | **10.** 27 | **11.** 100 | **12.** 100 | **13.** 20 | **14.** 28 |
| **15.** 31 | **16.** 130 | **17.** 33 | **18.** 32 | **19.** 29 | **20.** 130 | |

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|---|---|---|---|---|---|
| **1.** 28 | **2.** 13 | **3.** 40 | **4.** 70 | **5.** 67 | **6.** 33 |
| **7.** 29 | **8.** 161 | **9.** 72 | **10.** 53 | **11.** 20 | **12.** 110 |

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|---|---|---|---|---|---|
| **1.** 13 | **2.** 38 | **3.** 18 | **4.** 180 | **5.** 126 | **6.** 56 |
| **7.** 40 | **8.** 126 | **9.** 25 | **10.** 123 | **11.** 30 | **12.** 118 |

# Answers (Contd)

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|---|---|---|---|---|---|---|
| **1.** 29 | **2.** 21 | **3.** 22 | **4.** 30 | **5.** 73 | **6.** 31 | **7.** 35 |
| **8.** 21 | **9.** 22 | **10.** 18 | **11.** 40 | **12.** 49 | **13.** 95 | **14.** 42 |
| **15.** 20 | **16.** 72 | **17.** 50 | **18.** 30 | **19.** 30 | **20.** 56 | |

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|---|---|---|---|---|---|---|
| **1.** 30 | **2.** 19 | **3.** 74 | **4.** 20 | **5.** 51 | **6.** 30 | **7.** 38 |
| **8.** 34 | **9.** 30 | **10.** 33 | **11.** 40 | **12.** 95 | **13.** 50 | **14.** 22 |
| **15.** 70 | **16.** 75 | **17.** 77 | **18.** 36 | **19.** 102 | **20.** 47 | |

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|---|---|---|---|---|---|---|
| **1.** 30 | **2.** 33 | **3.** 30 | **4.** 75 | **5.** 42 | **6.** 60 | **7.** 60 |
| **8.** 150 | **9.** 60 | **10.** 130 | **11.** 75 | **12.** 42 | **13.** 195 | **14.** 195 |
| **15.** 39 | **16.** 180 | **17.** 400 | **18.** 36 | **19.** 300 | **20.** 70 | |

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| | | | | | | |
|---|---|---|---|---|---|---|
| **1.** 123 | **2.** 30 | **3.** 95 | **4.** 42 | **5.** 80 | **6.** 290 | **7.** 270 |
| **8.** 108 | **9.** 120 | **10.** 100 | **11.** 220 | **12.** 135 | **13.** 240 | **14.** 195 |
| **15.** 60 | **16.** 90 | **17.** 24 | **18.** 135 | **19.** 200 | **20.** 350 | |