



MATHEMATICS



N.S. Yr. 5 P.43

Using relationships between addition and subtraction and adding several numbers.

Equipment

Paper, pencil, calculator.

MathSphere

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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.

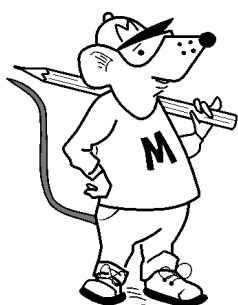
Given a set of numbers such as 629, 255, 682 and 630, they should be able to write down and calculate several combinations of these numbers in addition and subtraction sums, some with just two of the numbers such as $629 + 255$ and some with more such as $255 + 682 + 630$.

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. $690 + 151 = 841$

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. $638 - 579 = 59$

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



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 $23 + 102 = 125$, $125 - 23 = 102$ and $125 - 102 = 23$

2. Find $99 + 57$

3. Find $120 - 45$

4. Find $48 + 56$

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 $12.6 + 5.7$

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



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 $103 - 12$

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 $14.6 + 2.7$

Crikey, these are straining my brain.

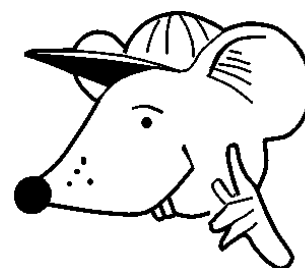


Without doing any working, answer the following questions:

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.

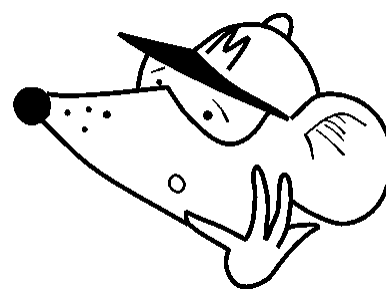
What will you need to do this?



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

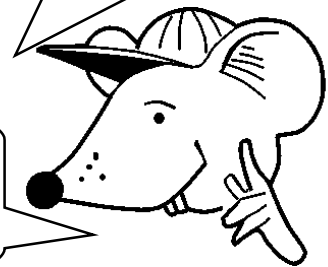
7. 340, 530, 200, 142

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

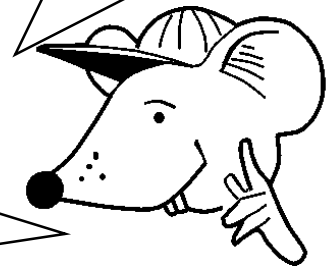
7. 900, 354, 511, 845

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

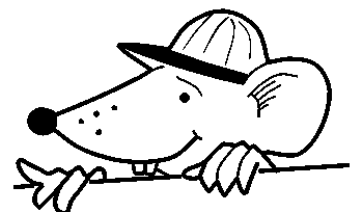
13. 834, 945, 533, 855

14. 433, 855, 590, 380

15. 222, 333, 444, 555

16. 700, 900, 350, 250

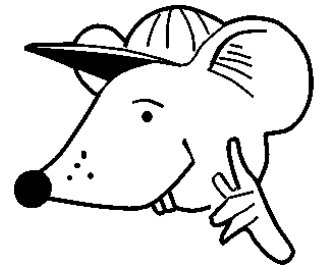
In number 9 you could have
 $944 - 433$, $433 - 233$, $634 - 433$
and so on.



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. $9 + 4 + 7 + 8$

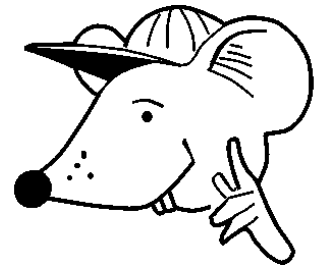
See how quickly you can do these.



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. $9 + \square = 30 + 7$

2. $8 + 12 + 9 + \square = 42$

3. $\square + 10 + 20 = 70$

4. $80 + \square = 150$

5. $30 + 20 + 17 = \square$

6. $90 + \square + 17 = 140$

7. $40 + 30 + \square = 99$

8. $45 + 36 + 80 = \square$

9. $4 + 8 + 6 + \square = 90$

10. $12 + 30 + 5 + 6 = \square$

11. $90 + 10 + \square = 40 + 40 + 40$

12. $4 + 56 + 20 + 30 = \square$

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



Say which numbers go in the boxes:

1. $9 + \square = 15 + 7$

2. $3 + 12 + 7 + \square = 60$

3. $\square + 4 + 8 = 30$

4. $20 + \square = 110 + 90$

5. $80 + 34 + 12 = \square$

6. $10 + \square + 12 = 78$

7. $65 + 39 + \square = 144$

8. $74 + 12 + 40 = \square$

9. $50 + 55 + \square = 130$

10. $80 + 32 + 8 + 3 = \square$

11. $80 + 70 + \square = 130 + 50$

12. $8 + 22 + 40 + 48 = \square$

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	$17.3 - 2.7 = 14.6$

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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
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