MATHEMATICS

N.S. Yr. 5   P.45

Using known number facts and place value to add or subtract pairs of numbers mentally.

Equipment

Paper, pencil.

MathSphere

Concepts

Children should be familiar with addition and subtraction of three-digit numbers involving multiples of 10. Eg. 320 + 580 or 730 – 240

They should be able to add three or more multiples of 100.
Eg. 600 + 900 + 500 .

They should be able to add/subtract a three or four digit multiple of a hundred to/from a three or four digit number, crossing the thousands boundary.
Eg. 534 + 800 or 1 532 – 600.

They should be able to add a three digit number to a three digit multiple of 10.
Eg. 240 +165 or 630 + 423.

They should also be able to work out what needs to be added to a number to make the next highest multiple of 100.
Eg. What needs to be added to 563 to make 600 ?

They should also be able to say what needs to be added to a decimal with tenths to make the next highest whole number.
Eg. What needs to be added to 6.3 to make 7 ?

1. $230 + 140$

2. $650 + 340$

3. $260 + 120$

4. $470 + 140$

5. $520 + 360$

6. $540 + 280$

7. $580 + 130$

8. $520 + 370$

9. $650 + 150$

10. $720 + 260$

11. $840 + 150$

12. $670 + 240$

13. $630 + 310$

14. $850 + 140$

15. $520 + 220$

16. $550 + 160$

17. $840 + 130$

18. $640 + 230$

19. $740 + 240$

20. $630 + 290$

21. $240 - 130$

22. $860 - 290$

23. $530 - 170$

24. $740 - 180$

25. $900 - 250$

26. $740 - 360$

27. $730 - 280$

28. $520 - 420$

29. $850 - 330$

30. $620 - 380$

31. $900 - 540$

32. $640 - 260$

33. $630 - 540$

34. $850 - 260$

35. $630 - 180$

36. $930 - 640$

37. $630 - 330$

38. $730 - 240$

39. $850 - 270$

40. $530 - 360$

Notice these are all multiples of 10.

You should be able to do them in your head.

Good luck!

1. 530 + 230

2. 630 + 190

3. 720 + 190

4. 460 + 340

5. 730 + 260

6. 720 + 230

7. 740 + 210

8. 180 + 150

9. 430 + 270

10. 180 + 190

11. 440 + 270

12. 370 + 390

13. 260 + 540

14. 380 + 120

15. 430 + 480

16. 620 + 370

17. 260 + 590

18. 540 + 620

19. 720 + 170

20. 780 + 240

21. 800 – 120

22. 730 – 340

23. 520 – 180

24. 730 – 260

25. 720 – 350

26. 960 – 250

27. 620 – 340

28. 900 – 780

29. 430 – 190

30. 830 – 740

31. 930 – 280

32. 850 – 240

33. 900 – 730

34. 940 – 120

35. 730 – 160
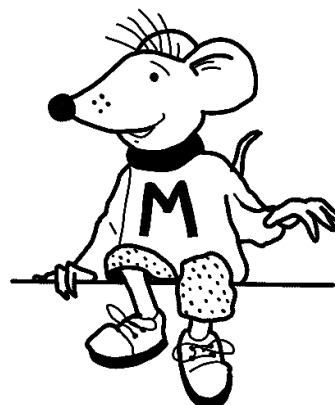
36. 860 – 240

37. 520 – 340

38. 630 – 180

39. 940 – 160

40. 720 – 130

Here are some more sums involving multiples of ten.

Be prepared to explain how you did them.

Without doing any written working, say which numbers go in the boxes:

1. $130 + \boxed{} = 280$

2. $430 + \boxed{} = 620$

3. $\boxed{} + 200 = 540$

4. $520 + \boxed{} = 780$

5. $740 + \boxed{} = 900$

6. $770 + \boxed{} = 850$

7. $230 + \boxed{} = 740$

8. $150 + \boxed{} = 840$

9. $730 + \boxed{} = 900$

10. $\boxed{} + 250 = 760$

11. $430 + \boxed{} = 820$

12. $270 + \boxed{} = 760$

13. $310 + \boxed{} = 650$

14. $730 + \boxed{} = 900$

15. $500 + \boxed{} = 890$

16. $670 - \boxed{} = 430$

17. $890 - \boxed{} = 320$

18. $\boxed{} - 180 = 540$

19. $500 - \boxed{} = 360$

20. $330 - \boxed{} = 180$

21. $730 - \boxed{} = 290$

22. $840 - \boxed{} = 230$

23. $150 - \boxed{} = 80$

24. $670 - \boxed{} = 210$

25. $\boxed{} - 150 = 290$

26. $520 - \boxed{} = 360$

27. $420 - \boxed{} = 160$

28. $620 - \boxed{} = 340$

29. $900 - \boxed{} = 250$

30. $670 - \boxed{} = 580$

This lot should strain your brain.

Go carefully.
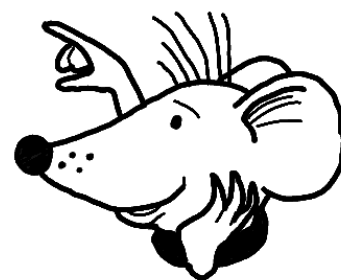
Without doing any written working, say which numbers go in the boxes:

1. $740 + \boxed{} = 820$ **16.** $290 - \boxed{} = 110$

2. $350 + \boxed{} = 690$ **17.** $750 - \boxed{} = 380$

3. $\boxed{} + 150 = 340$ **18.** $\boxed{} - 210 = 420$

4. $280 + \boxed{} = 560$ **19.** $510 - \boxed{} = 470$

5. $620 + \boxed{} = 900$ **20.** $840 - \boxed{} = 260$

6. $730 + \boxed{} = 940$ **21.** $900 - \boxed{} = 80$

7. $630 + \boxed{} = 840$ **22.** $530 - \boxed{} = 270$

8. $230 + \boxed{} = 900$ **23.** $830 - \boxed{} = 740$

9. $840 + \boxed{} = 930$ **24.** $780 - \boxed{} = 450$

10. $\boxed{} + 240 = 370$ **25.** $\boxed{} - 290 = 620$

11. $730 + \boxed{} = 960$ **26.** $570 - \boxed{} = 310$

12. $720 + \boxed{} = 880$ **27.** $630 - \boxed{} = 240$

13. $320 + \boxed{} = 750$ **28.** $900 - \boxed{} = 750$

14. $230 + \boxed{} = 730$ **29.** $730 - \boxed{} = 240$

15. $240 + \boxed{} = 560$ **30.** $600 - \boxed{} = 250$

Think carefully how you could do these sums.

A good method could make your work more accurate.

Without doing any written working, answer these questions.

1. $200 + 500 + 500$

2. $600 + 300 + 700$

3. $200 + 600 + 900$

4. $500 + 100 + 800$

5. $700 + 300 + 600$

6. $200 + 400 + 900$

7. $800 + 800 + 800$

8. $700 + 600 + 300$

9. $900 + 100 + 800$

10. $200 + 500 + 600$

11. $800 + 300 + 100$

12. $800 + 700 + 600$

13. $400 + 500 + 800$

14. $900 + 500 + 900$

15. $700 + 800 + 600$

16. $500 + \boxed{} = 1\ 200$

17. $700 + \boxed{} = 2\ 300$

18. $\boxed{} + 600 = 1\ 300$

19. $900 + \boxed{} = 2\ 500$

20. $700 + \boxed{} = 5\ 200$

21. $\boxed{} + 400 = 1\ 600$

22. $800 + \boxed{} = 1\ 400$

23. $200 + \boxed{} = 2\ 100$

24. $4\ 200 - \boxed{} = 700$

25. $\boxed{} - 800 = 300$

26. $2\ 500 - \boxed{} = 1\ 800$

27. $5\ 100 - \boxed{} = 600$

28. $\boxed{} - 900 = 400$

29. $2\ 400 - \boxed{} = 500$

30. $1\ 300 - \boxed{} = 700$

Multiple of 100 here, guys, so thinking in hundreds may help!
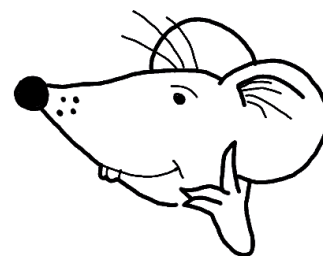
Without doing any written working, answer these questions.

1. $600 + 400 + 700$

2. $300 + 300 + 600$

3. $500 + 700 + 300$

4. $400 + 200 + 900$

5. $800 + 400 + 700$

6. $300 + 500 + 700$

7. $200 + 200 + 900$

8. $800 + 800 + 200$

9. $700 + 600 + 300$

10. $500 + 700 + 200$

11. $900 + 200 + 500$

12. $600 + 500 + 800$

13. $300 + 200 + 900$

14. $800 + 400 + 600$

15. $300 + 300 + 700$

16. $800 + \boxed{} = 1\,500$

17. $900 + \boxed{} = 1\,400$

18. $\boxed{} + 400 = 1\,500$

19. $800 + \boxed{} = 4\,300$

20. $300 + \boxed{} = 2\,200$

21. $\boxed{} + 700 = 1\,800$

22. $300 + \boxed{} = 1\,800$

23. $700 + \boxed{} = 1\,600$

24. $1\,300 - \boxed{} = 500$

25. $\boxed{} - 400 = 600$

26. $1\,600 - \boxed{} = 800$

27. $4\,200 - \boxed{} = 300$

28. $\boxed{} - 400 = 700$

29. $1\,700 - \boxed{} = 900$

30. $1\,400 - \boxed{} = 800$

More hundreds.

Sometimes it helps to think in tens or hundreds or even thousands.

Good luck!
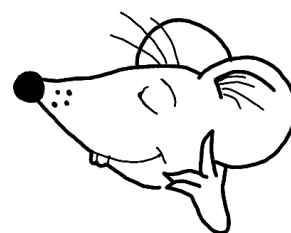
Without doing any written working, give the answers to these questions:

1. 537 + 400

2. 847 + 500

3. 521 + 700

4. 756 + 700

5. 629 + 400

6. 999 + 500

7. 937 + 100

8. 763 + 600

9. 1 567 − 700

10. 1 737 − 900

11. 1 634 − 800

12. 3 634 − 600

13. 4 356 − 800

14. 6 739 − 900

15. 1 527 − 700

16. 637 + ☐ = 1 537

17. 563 + ☐ = 1 263

18. ☐ + 400 = 1 367

19. 600 + ☐ = 1 352

20. 900 + ☐ = 1 462

21. ☐ + 700 = 1 365

22. 890 + ☐ = 1 490

23. 1 468 + ☐ = 968

24. 1 284 − ☐ = 900

25. ☐ − 700 = 530

26. 1 523 − ☐ = 923

27. 1 443 − ☐ = 743

28. ☐ − 962 = 700

29. 1 744 − ☐ = 844

30. 1 633 − ☐ = 833

Big clue:

In every sum there is a multiple of 100 somewhere.

Without doing any written working, give the answers to these questions:

1. $365 + 800$

2. $548 + 600$

3. $173 + 900$

4. $584 + 600$

5. $856 + 800$

6. $744 + 300$

7. $952 + 700$

8. $845 + 200$

9. $1\,244 - 400$

10. $1\,376 - 500$

11. $1\,633 - 800$

12. $3\,523 - 700$

13. $4\,834 - 900$

14. $1\,535 - 700$

15. $1\,222 - 600$

16. $863 + \boxed{} = 1\,463$

17. $900 + \boxed{} = 1\,342$

18. $\boxed{} + 800 = 1\,534$

19. $587 + \boxed{} = 1\,387$

20. $379 + \boxed{} = 1\,279$

21. $\boxed{} + 900 = 1\,478$

22. $673 + \boxed{} = 1\,573$

23. $733 + \boxed{} = 1\,633$

24. $1\,839 - \boxed{} = 939$

25. $\boxed{} - 400 = 747$

26. $1\,634 - \boxed{} = 934$

27. $1\,555 - \boxed{} = 800$

28. $\boxed{} - 700 = 538$

29. $1\,665 - \boxed{} = 765$

30. $1\,734 - \boxed{} = 300$

More multiples of 100. Keep thinking carefully.
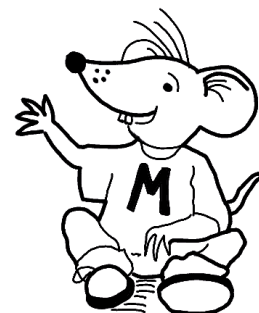
Without doing any written working, give the answers to these questions:

1. $450 + 246$

2. $850 + 336$

3. $740 + 529$

4. $430 + 364$

5. $820 + 247$

6. $720 + 516$

7. $118 + 680$

8. $667 + 730$

9. $478 - 250$

10. $746 - 320$

11. $973 - 270$

12. $684 - 440$

13. $887 - 260$

14. $938 - 610$

15. $746 - 320$

16. $723 + \boxed{} = 963$

17. $270 + \boxed{} = 885$

18. $\boxed{} + 240 = 567$

19. $320 + \boxed{} = 874$

20. $520 + \boxed{} = 734$

21. $\boxed{} + 360 = 488$

22. $620 + \boxed{} = 945$

23. $352 + \boxed{} = 472$

24. $687 - \boxed{} = 357$

25. $\boxed{} - 425 = 310$

26. $538 - \boxed{} = 218$

27. $639 - \boxed{} = 319$

28. $\boxed{} - 230 = 646$

29. $739 - \boxed{} = 519$

30. $647 - \boxed{} = 230$

Quite a mixed bunch of questions here. You will need to think hard about the tens and hundreds.

Without doing any written working, give the answers to these questions:

1. $760 + 427$

2. $630 + 548$

3. $450 + 239$

4. $720 + 352$

5. $730 + 546$

6. $480 + 312$

7. $358 + 340$

8. $448 + 840$

9. $845 - 320$

10. $953 - 540$

11. $847 - 620$

12. $376 - 150$

13. $382 - 240$

14. $328 - 160$

15. $665 - 440$

16. $564 + \boxed{} = 774$

17. $783 + \boxed{} = 1\,483$

18. $\boxed{} + 450 = 764$

19. $480 + \boxed{} = 694$

20. $320 + \boxed{} = 654$

21. $\boxed{} + 470 = 894$

22. $430 + \boxed{} = 648$

23. $376 + \boxed{} = 776$

24. $538 - \boxed{} = 210$

25. $\boxed{} - 372 = 620$

26. $527 - \boxed{} = 317$

27. $529 - \boxed{} = 410$

28. $\boxed{} - 430 = 656$

29. $858 - \boxed{} = 428$

30. $466 - \boxed{} = 230$

Keep practising those tens and hundreds.

Soon you will be as good as me!

Without doing any written working, give the answers to these questions:

1. What must be added to 789 to make 800 ?

2. What must be added to 854 to make 900 ?

This is a nice easy page to relax you. This should be a piece of cake after page 12 !

3. What must be added to 546 to make 600 ?

4. What must be added to 399 to make 400 ?

5. What must be added to 732 to make 800 ?

6. What must be added to 573 to make 600 ?

7. What must be added to 967 to make 1 000 ?

8. What must be added to 744 to make 800 ?

9. What must be added to 123 to make 200 ?
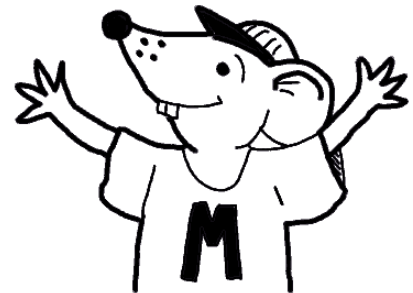
10. $745 + \boxed{} = 800$

11. $334 + \boxed{} = 400$

12. $349 + \boxed{} = 400$

13. $645 + \boxed{} = 700$

14. $845 + \boxed{} = 900$

15. $319 + \boxed{} = 400$

Without doing any written working, give the answers to these questions:

1. What must be added to 569 to make 600 ?

2. What must be added to 274 to make 300 ?

3. What must be added to 831 to make 900 ?

4. What must be added to 635 to make 700 ?

5. What must be added to 876 to make 900 ?

6. What must be added to 945 to make 1 000 ?

7. What must be added to 845 to make 900 ?

8. What must be added to 212 to make 300 ?

9. What must be added to 721 to make 800 ?

10. 597 + ☐ = 600

11. 111 + ☐ = 200

12. 834 + ☐ = 900

13. 352 + ☐ = 400

14. 219 + ☐ = 300

15. 755 + ☐ = 800

This is a nice easy page to relax you. This should be a piece of Dundee** after page 12 !

**Dundee -
A special sort of cake loved my Maths Rats!

Without doing any written working, give the answers to these questions:

1. What must be added to 5.6 to make 6 ?

2. What must be added to 7.2 to make 8 ?

3. What must be added to 9.6 to make 10 ?

4. What must be added to 3.8 to make 4 ?

5. What must be added to 2.7 to make 3 ?

6. What must be added to 8.8 to make 9 ?

7. What must be added to 3.5 to make 4 ?

8. What must be added to 4.4 to make 5 ?

9. What must be added to 2.6 to make 3 ?

Decimals? Yikes!

Better think carefully how you are going to do these.

Which is the best method?

10. $6.8 + \boxed{} = 7$

11. $2.8 + \boxed{} = 3$

12. $1.9 + \boxed{} = 2$

13. $5.5 + \boxed{} = 6$

14. $1.3 + \boxed{} = 2$

15. $7.4 + \boxed{} = 8$

Without doing any written working, give the answers to these questions:

1. What must be added to 9.5 to make 10 ?

2. What must be added to 5.7 to make 6 ?

3. What must be added to 1.8 to make 2 ?

4. What must be added to 4.3 to make 5 ?

More decimals.

Not too difficult if you concentrate hard.

5. What must be added to 7.8 to make 8 ?

6. What must be added to 5.4 to make 6 ?

7. What must be added to 2.6 to make 3 ?

8. What must be added to 9.1 to make 10 ?

9. What must be added to 6.6 to make 7 ?

10. $9.7 + \boxed{} = 10$

11. $5.3 + \boxed{} = 8$

12. $4.6 + \boxed{} = 5$

13. $3.8 + \boxed{} = 4$

14. $5.9 + \boxed{} = 6$

15. $4.5 + \boxed{} = 5$

Answers

Page 3

1. 370	**2.** 990	**3.** 380	**4.** 610	**5.** 880	**6.** 820	**7.** 710
8. 890	**9.** 800	**10.** 980	**11.** 990	**12.** 910	**13.** 940	**14.** 990
15. 740	**16.** 710	**17.** 970	**18.** 870	**19.** 980	**20.** 920	**21.** 110
22. 570	**23.** 360	**24.** 560	**25.** 650	**26.** 380	**27.** 450	**28.** 100
29. 520	**30.** 240	**31.** 360	**32.** 380	**33.** 90	**34.** 590	**35.** 450
36. 290	**37.** 300	**38.** 490	**39.** 580	**40.** 170		

Page 4

1. 760	**2.** 820	**3.** 910	**4.** 800	**5.** 990	**6.** 950	**7.** 950
8. 330	**9.** 700	**10.** 370	**11.** 710	**12.** 760	**13.** 800	**14.** 500
15. 910	**16.** 990	**17.** 850	**18.** 1 160	**19.** 890	**20.** 1 020	**21.** 680
22. 390	**23.** 340	**24.** 470	**25.** 370	**26.** 710	**27.** 280	**28.** 120
29. 240	**30.** 90	**31.** 650	**32.** 610	**33.** 170	**34.** 820	**35.** 570
36. 620	**37.** 180	**38.** 450	**39.** 780	**40.** 590		

Page 5

1. 150	**2.** 190	**3.** 340	**4.** 260	**5.** 160	**6.** 80	**7.** 510
8. 690	**9.** 170	**10.** 510	**11.** 390	**12.** 490	**13.** 340	**14.** 170
15. 390	**16.** 240	**17.** 570	**18.** 720	**19.** 140	**20.** 150	**21.** 440
22. 610	**23.** 70	**24.** 460	**25.** 440	**26.** 160	**27.** 260	**28.** 280
29. 650	**30.** 90					

Page 6

1. 80	**2.** 340	**3.** 190	**4.** 280	**5.** 280	**6.** 210	**7.** 210
8. 670	**9.** 90	**10.** 130	**11.** 230	**12.** 160	**13.** 430	**14.** 500
15. 320	**16.** 180	**17.** 370	**18.** 630	**19.** 40	**20.** 580	**21.** 820
22. 260	**23.** 90	**24.** 330	**25.** 910	**26.** 260	**27.** 390	**28.** 150
29. 490	**30.** 350					

Page 7

1. 1 200	**2.** 1 600	**3.** 1 700	**4.** 1 400	**5.** 1 600	**6.** 1 500	**7.** 2 400
8. 1 600	**9.** 1 800	**10.** 1 300	**11.** 1 200	**12.** 2 100	**13.** 1 700	**14.** 2 300
15. 2 100	**16.** 700	**17.** 1 600	**18.** 700	**19.** 1 600	**20.** 4 500	**21.** 1 200
22. 600	**23.** 1 900	**24.** 3 500	**25.** 1 100	**26.** 700	**27.** 4 500	**28.** 1 300
29. 1 900	**30.** 600					

Page 8

1. 1 700	**2.** 1 200	**3.** 1 500	**4.** 1 500	**5.** 1 900	**6.** 1 500	**7.** 1 300
8. 1 800	**9.** 1 600	**10.** 1 400	**11.** 1 600	**12.** 1 900	**13.** 1 400	**14.** 1 800
15. 1 300	**16.** 700	**17.** 500	**18.** 1 100	**19.** 3 500	**20.** 1 900	**21.** 1 100
22. 1 500	**23.** 900	**24.** 800	**25.** 1 000	**26.** 800	**27.** 3 900	**28.** 1 100
29. 800	**30.** 600					

Answers (Contd)

Page 9
1. 937   **2.** 1 347   **3.** 1 221   **4.** 1 456   **5.** 1 029   **6.** 1 499   **7.** 1 037
8. 1 363   **9.** 867   **10.** 837   **11.** 834   **12.** 3 034   **13.** 3 556   **14.** 5 839
15. 827   **16.** 900   **17.** 700   **18.** 967   **19.** 752   **20.** 562   **21.** 665
22. 600   **23.** 500   **24.** 384   **25.** 1 230   **26.** 600   **27.** 700   **28.** 1 662
29. 900   **30.** 800

Page 10
1. 1 165   **2.** 1 148   **3.** 1 073   **4.** 1 184   **5.** 1 656   **6.** 1 044   **7.** 1 652
8. 1 045   **9.** 844   **10.** 876   **11.** 833   **12.** 2 823   **13.** 3 934   **14.** 835
15. 622   **16.** 600   **17.** 442   **18.** 734   **19.** 800   **20.** 900   **21.** 578
22. 900   **23.** 900   **24.** 900   **25.** 1 147   **26.** 700   **27.** 755   **28.** 1 238
29. 900   **30.** 1 434

Page 11
1. 696   **2.** 1 186   **3.** 1 269   **4.** 794   **5.** 1 067   **6.** 1 236   **7.** 798
8. 1 397   **9.** 228   **10.** 426   **11.** 703   **12.** 244   **13.** 627   **14.** 328
15. 426   **16.** 240   **17.** 615   **18.** 327   **19.** 554   **20.** 214   **21.** 128
22. 325   **23.** 120   **24.** 330   **25.** 735   **26.** 320   **27.** 320   **28.** 876
29. 220   **30.** 417

Page 12
1. 1 187   **2.** 1 178   **3.** 689   **4.** 1 072   **5.** 1 276   **6.** 792   **7.** 698
8. 1 288   **9.** 525   **10.** 413   **11.** 227   **12.** 226   **13.** 142   **14.** 168
15. 225   **16.** 210   **17.** 700   **18.** 314   **19.** 214   **20.** 334   **21.** 424
22. 218   **23.** 400   **24.** 328   **25.** 992   **26.** 210   **27.** 119   **28.** 1 086
29. 430   **30.** 236

Page 13
1. 11   **2.** 46   **3.** 54   **4.** 1   **5.** 68   **6.** 27   **7.** 33
8. 56   **9.** 77   **10.** 55   **11.** 66   **12.** 51   **13.** 55   **14.** 55
15. 81

Page 14
1. 31   **2.** 26   **3.** 69   **4.** 65   **5.** 24   **6.** 55   **7.** 55
8. 88   **9.** 79   **10.** 3   **11.** 89   **12.** 66   **13.** 48   **14.** 81
15. 45

Page 15
1. 0.4   **2.** 0.8   **3.** 0.4   **4.** 0.2   **5.** 0.3   **6.** 0.2   **7.** 0.5
8. 0.6   **9.** 0.4   **10.** 0.2   **11.** 0.2   **12.** 0.1   **13.** 0.5   **14.** 0.7
15. 0.6

Answers (Contd)

Page 16

1. 0.5   **2.** 0.3   **3.** 0.2   **4.** 0.7   **5.** 0.2   **6.** 0.6   **7.** 0.4

8. 0.9   **9.** 0.4   **10.** 0.3   **11.** 0.7   **12.** 0.4   **13.** 0.2   **14.** 0.1

15. 0.5