

Heatherwood Mathletes
Blue Belt Home Exercises
November 11, 2004

Name _____



Date _____

Decimals

(Answer ID # 1096764)

Write each as a fraction.

1. four thousandths	2. 187 thousandths	3. 0.326
4. 0.535	5. four hundred sixty-two thousandths	6. 0.339
7. 661 thousandths	8. nine hundred six thousandths	9. 0.348
10. one hundred seventy-four thousandths	11. eight hundred seventy-seven thousandths	12. six thousandths
13. 2 thousandths	14. 0.881	15. 0.726
16. 605 thousandths	17. four hundred seventy thousandths	18. 0.729
19. 0.505	20. five hundred eighty-nine thousandths	21. one hundred twenty-four thousandths
22. 450 thousandths	23. 0.337	24. one thousandth
25. 0.646	26. 0.898	27. three hundred two thousandths
28. 0.277	29. 643 thousandths	30. eight thousandths
31. four hundred thirty thousandths	32. 119 thousandths	33. nine thousandths
34. 0.500	35. 0.961	36. 0.810

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Number Theory

(Answer ID # 0790032)

Find the prime factorization of each number.

1. 48	2. 12	3. 34	4. 47
5. 8	6. 33	7. 72	8. 10
9. 18	10. 23	11. 24	12. 35
13. 56	14. 96	15. 44	16. 16
17. 74	18. 50	19. 97	20. 25
21. 84	22. 54	23. 20	24. 69
25. 71	26. 29	27. 70	28. 92
29. 15	30. 62	31. 73	32. 91
33. 28	34. 41	35. 11	36. 30
37. 66	38. 78	39. 55	40. 40

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Division

(Answer ID # 0658715)

Divide.

1. $2 \overline{)34}$	2. $6 \overline{)14}$	3. $8 \overline{)87}$	4. $4 \overline{)68}$
5. $4 \overline{)59}$	6. $4 \overline{)32}$	7. $7 \overline{)30}$	8. $8 \overline{)72}$
9. $4 \overline{)27}$	10. $9 \overline{)14}$	11. $6 \overline{)82}$	12. $4 \overline{)20}$
13. $2 \overline{)81}$	14. $7 \overline{)75}$	15. $2 \overline{)92}$	16. $8 \overline{)82}$
17. $9 \overline{)36}$	18. $9 \overline{)19}$	19. $2 \overline{)56}$	20. $5 \overline{)22}$

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Division

(Answer ID # 0360680)

Divide.

1. $4 \overline{)224}$	2. $3 \overline{)90}$	3. $5 \overline{)30}$	4. $2 \overline{)724}$
5. $7 \overline{)546}$	6. $9 \overline{)45}$	7. $9 \overline{)279}$	8. $6 \overline{)606}$
9. $8 \overline{)16}$	10. $4 \overline{)76}$	11. $7 \overline{)945}$	12. $7 \overline{)861}$
13. $3 \overline{)96}$	14. $9 \overline{)99}$	15. $2 \overline{)82}$	16. $8 \overline{)872}$
17. $7 \overline{)987}$	18. $3 \overline{)66}$	19. $2 \overline{)76}$	20. $7 \overline{)623}$
21. $3 \overline{)24}$	22. $2 \overline{)652}$	23. $9 \overline{)81}$	24. $4 \overline{)216}$
25. $7 \overline{)721}$	26. $2 \overline{)38}$	27. $2 \overline{)434}$	28. $3 \overline{)99}$
29. $3 \overline{)762}$	30. $7 \overline{)49}$	31. $5 \overline{)85}$	32. $5 \overline{)470}$

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Solving Equations

(Answer ID # 0958230)

Write an equation for each problem. Then solve the equation.

1. A number minus 25 is 55.	2. A number plus 4 is 28.
3. 38 plus a number is 59.	4. The difference between 94 and a number is 8.
5. Ten times a number is 90.	6. A number multiplied by 2 is 6.
7. A number divided by 12 is 9.	8. 88 divided by a number is 8.
9. Four times a number is 24.	10. 5 plus a number is 97.
11. A number plus 24 is 49.	12. A number multiplied by 4 is 20.
13. The difference between 57 and a number is 51.	14. 30 divided by a number is 6.
15. A number divided by 3 is 11.	16. A number minus 10 is 79.
17. 14 divided by a number is 2.	18. Seven times a number is 70.

Algebra Practice Problems

Name: _____

Date: _____

Worksheet generated at **www.math.com**

1.) $-6 - 5x = 44$

2.) $5x + 6 = 31$

3.) $6 - 7x = -1$

4.) $5x + 9 = -6$

5.) $6x + 6 = 66$

6.) $2x - 9 = -6x + 63$

7.) $2x - 7 = -3x - 67$

8.) $9 - 7x = 7x - 61$

9.) $6x + 5 = 7x - 1$

10.) $-2x + 5 = -3x + 12$

11.) $5(10 - 5x) = 100$

12.) $7(-5x + 7) = -196$

13.) $2(1x - 2) = 0$

14.) $4(8 + 2x) = 88$

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Algebra

(Answer ID # 0250319)

Complete.

1. The sum of two consecutive integers is 45.
What is the first number?

2. The sum of three consecutive odd integers is 165. What is the third number?

3. The sum of four consecutive integers is 162.
What is the fourth number?

4. What is the sum of three consecutive even integers if the sum of the second and third numbers is twenty-eight less than three times the first number?