

Name _____

Date _____

Algebra: Addition and Subtraction Equations

Directions: Solve each equation. Show all work in the space provided.

1) $31.5 = a - 34.4$ _____

2) $42 + y = 57$ _____

3) $x + 76.31 = 164.89$ _____

4) $23 + y = 119$ _____

5) $x - 32 = 49$ _____

6) $x + 19.98 = 30.14$ _____

7) $44.58 + y = 114.05$ _____

8) $45 + y = 98$ _____

9) $x + 23 = 92$ _____

10) $x - 9 = 26$ _____

11) $36 = a - 10$ _____

12) $36 = a - 64$ _____

13) $96 + y = 187$ _____

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14) $x + 72 = 142$

15) $x - 5 = 67$

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Algebra: Addition and Subtraction Equations

Directions: Solve each equation. Show all work in the space provided.

1) $69 + y = 95$

2) $91 + y = 93$

3) $x - 75 = 19$

4) $x - 50.79 = 12.17$

5) $x - 32 = 49$

6) $x + 27 = 55$

7) $x + 1 = 48$

8) $18.73 = a - 9.41$

9) $12 = a - 46$

10) $97 = a - 3$

11) $12 + y = 106$

12) $x + 69 = 162$

13) $12.2 + y = 93.6$

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14) $x + 41 = 117$

15) $39 = a - 40$

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Algebra: Addition and Subtraction Equations

Directions: Solve each equation. Show all work in the space provided.

1) $x + 82.13 = 112.79$

2) $29.36 + y = 114.88$

3) $7 = a - 91$

4) $x - 12.3 = 47.8$

5) $x + 45 = 98$

6) $4 = a - 43$

7) $67 = a - 33$

8) $x - 14 = 17$

9) $24 + y = 123$

10) $x + 34.45 = 117.4$

11) $x + 29.25 = 38.68$

12) $49.2 = a - 7.55$

13) $77 + y = 105$

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14) $70 + y = 95$

15) $x - 50 = 46$

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Algebra: Multiplication and Division Equations

Directions: Solve each equation. Show all work in the space provided.

1) $n \div 49 = 9$

2) $42 = 7a$

3) $28.4 = 7.1a$

4) $5b = 35$

5) $126.5 = 11.5a$

6) $4b = 40$

7) $78.4 = 11.2a$

8) $7b = 42$

9) $16 = 8a$

10) $1b = 5.1$

11) $n \div 37 = 4$

12) $44.4 = 11.1a$

13) $21 = 10.5a$

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14) $n \div 27 = 9$

15) $11.8 = 5.9a$

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Algebra: Multiplication and Division Equations

Directions: Solve each equation. Show all work in the space provided.

1) $72.9 = 8.1a$

2) $8b = 51.2$

3) $84 = 12a$

4) $n \div 35 = 3.5$

5) $62.5 = 12.5a$

6) $2b = 3.6$

7) $n \div 40 = 2$

8) $105.6 = 8.8a$

9) $21 = 3a$

10) $9.6 = 4.8a$

11) $n \div 18 = 6$

12) $48 = 4a$

13) $87.5 = 12.5a$

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14) $29 = 5.8a$

15) $6b = 36$

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Algebra: Multiplication and Division Equations

Directions: Solve each equation. Show all work in the space provided.

1) $n \div 32 = 5$

2) $108 = 9a$

3) $6b = 66$

4) $70 = 10a$

5) $2b = 21.4$

6) $n \div 41 = 5$

7) $79.2 = 7.2a$

8) $n \div 27 = 9$

9) $n \div 44 = 6$

10) $10.4 = 5.2a$

11) $122.4 = 10.2a$

12) $120 = 12a$

13) $1b = 7.6$

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14) $88 = 11a$

15) $11b = 58.3$

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Simple Algebra

Directions: Solve each equation. Show all work in the space provided.

1) $10b = 11$

2) $16 + y = 77$

3) $x - 15 = 57$

4) $n \div 12 = 3$

5) $24 = 6a$

6) $x + 60.7 = 131.6$

7) $13 = a - 22$

8) $31 + 39 = 24 + y$

9) $x - 12 = 58$

10) $x + 63 = 74$

11) $x + 72 = 57 + 45$

12) $5.45 + y = 85.92$

13) $x - 45 = 102$

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14) $62.4 = 7.8a$

15) $x - 85 = 23$

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Simple Algebra

Directions: Solve each equation. Show all work in the space provided.

1) $20b = 22$

2) $89 + y = 34$

3) $x - 84 = 23$

4) $n \div 9 = 7$

5) $100 = 4a$

6) $x + 102.4 = 231.4$

7) $73 = a - 39$

8) $31 + 99 = 82 + y$

9) $x - 34 = 1008$

10) $x + 23 = 65$

11) $x + 123 = 103 + 93$

12) $32.45 + y = 98.39$

13) $x - 74 = 223$

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14) $117.6 = 9.8a$

15) $x - 95 = 83$

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Simple Algebra

Directions: Solve each equation. Show all work in the space provided.

1) $120b = 980$

2) $29 + y = 184$

3) $x - 43 = 37$

4) $n \div 80 = 12$

5) $200 = 8a$

6) $x + 224.5 = 361.2$

7) $83 = a - 912$

8) $87 + 219 = 122 + y$

9) $x - 63 = 824$

10) $x + 83 = 582$

11) $x + 313 = 235 + 99$

12) $26.55 + y = 89.23$

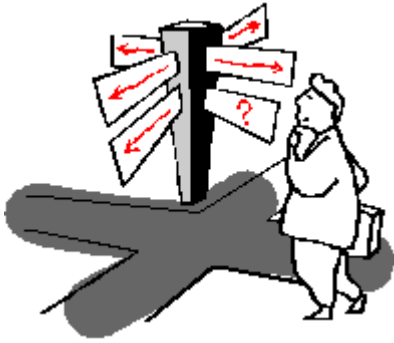
13) $x - 714 = 723$

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14) $212.4 = 11.8a$

15) $x - 125 = 38$



Algebra: Word Problems

Directions: Solve each problem.

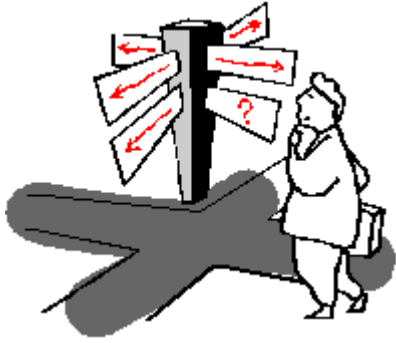
1. Four apples and two oranges equal \$1.00, and 2 apples and 3 oranges equal \$0.70. How much does each apple and each orange cost?

2. Tom's father is 3 times older than Tom. Four years ago, Tom was 4 times older. How old is Tom?

3. It takes Sal 5 hours to paint a house. It takes Tom 3 hours to paint the same house. How long will it take to paint the house if both of them work together?

4. The sum of twice a number plus 13 equal 75. Find the number.

5. Find a number when decreased by 18 is 5 times it's opposite.



Algebra: Word Problems

Directions: Solve each problem.

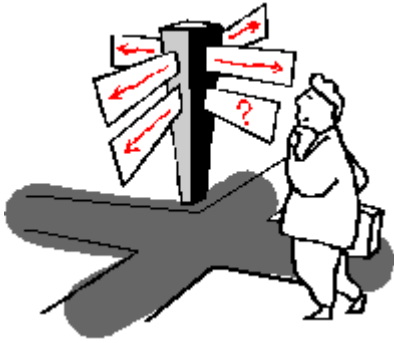
1. The sum of 6 and three times a mystery number equals 33. Find the number.

2. The difference between 55 and four times a number is equal to fifteen. Find the number.

3. The sum of 3 and six times a number is equal to 39. Find the number.

4. The sum of 5 and a number divided by 4 is 9. Find the number.

5. The difference between 8 and a number is 2. Find the number.



Algebra: Word Problems

Directions: Solve each problem.

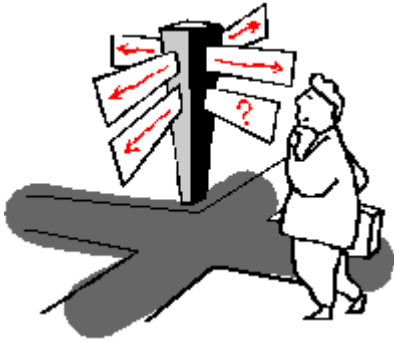
1. The sum of a number, and the difference between 16 and a number, plus 5 is 21. What is the number?

2. Stu has twice as much money invested in stocks as in bonds. Stocks earned 8% interest per year and bonds 2% per year. If Stu earned a total of \$400 dollars from his stocks and bonds last year how much money did he have invested in stocks?

3. John's present age is three-fourths of Sally's present age. In five years, John's age will be four-fifths of Sarah's age at that time. What are the present ages of John and Sally?

4. The sum of two numbers is 91. The larger number is 1 more than four times the smaller number. Find each number.

5. Find three consecutive odd integers, such that three times the second minus the third, is 17 more than the first.



Algebra: Word Problems

Directions: Solve each problem.

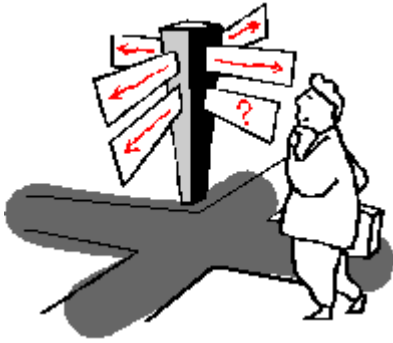
1. Adam is 3 times as old as Cynthia and Fred is 16 years younger than Adam. One year ago, Adam's age was twice the sum of Cynthia's & Fred's age. Find their present age.

2. In the first year of production a play sells 1,572 tickets. In its second year it sells 1,753 tickets, and in its third year it sells 152 less than in its second year. How many tickets are sold in 3 years?

3. Mark reads at an average rate of 30 pages per hour, while Mindy reads at an average rate of 40 pages per hour. If Mark starts reading a novel at 4:30 P.M., and Mindy begins reading the same novel at 5:20 P.M., at what time will they be reading the same page?

4. Eight times a number plus 3 times the number is the same as 20 more than 9 times the number. Find the number.

5. If 5 times the first number plus three times the second number equals 47, and 10 times the first number minus 4 times the second number equals 54, what are the numbers?



Algebra: Word Problems

Directions: Solve each problem.

1. Andy wants to sort his football cards into boxes that hold 50 cards each. He has 620 football cards. About how many boxes will Andy need to hold all his cards?

2. The gas tank on your mom's car holds about 15 gallons. If gas cost \$.99 a gallon, about how much does it cost to fill the tank if empty?

3. There are 640 acres in a square mile. How many square meters are there in one acre?

4. A drug store parking lot has space for 1,000 cars. $\frac{2}{5}$ ths of the spaces are for compact cars. On Tuesday, there were 200 compact cars and some standard size cars in the parking lot. The parking lot was $\frac{3}{4}$ full. How many standard size cars were in the parking lot?

5. According to experts the first 4 moves in a chess game can be played in 197,299 totally different ways. If it takes 30 seconds to make one move, how long would it take one player to try every possible set of 4 moves?

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Answer Key

Algebra Addition & Subtraction Equations Worksheets

Version 1	Version 2	Version 3
1. 65.9	1. 26	1. 30.66
2. 15	2. 2	2. 85.52
3. 88.58	3. 94	3. 98
4. 96	4. 62.96	4. 60.1
5. 81	5. 81	5. 53
6. 10.16	6. 28	6. 47
7. 69.47	7. 47	7. 100
8. 53	8. 28.14	8. 31
9. 69	9. 58	9. 99
10. 35	10. 100	10. 82.95
11. 46	11. 94	11. 9.43
12. 100	12. 93	12. 56.75
13. 91	13. 81.4	13. 28
14. 70	14. 76	14. 25
15. 72	15. 79	15. 96

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Answer Key

Algebra Multiplication and Division Equations Worksheets

Version 1	Version 2	Version 3
1. 441	1. 9	1. 160
2. 6	2. 6.4	2. 12
3. 4	3. 7	3. 11
4. 7	4. 122.5	4. 7
5. 11	5. 5	5. 10.7
6. 10	6. 1.8	6. 205
7. 7	7. 80	7. 11
8. 6	8. 12	8. 243
9. 2	9. 7	9. 264
10. 5.1	10. 2	10. 2
11. 148	11. 108	11. 12
12. 4	12. 12	12. 10
13. 2	13. 7	13. 7.6
14. 243	14. 8	14. 8
15. 2	15. 5.3	15. 5.3

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Answer Key

Simple Algebra Worksheets

Version 1	Version 2	Version 3
1. 1.1	1. 1.1	1. 8.16
2. 61	2. - 55	2. 155
3. 72	3. 107	3. 80
4. 36	4. 63	4. 960
5. 4	5. 25	5. 25
6. 70.9	6. 129	6. 136.7
7. 35	7. 112	7. 995
8. 46	8. 48	8. 184
9. 70	9. 1042	9. 761
10. 11	10. 42	10. 499
11. 30	11. 73	11. 21
12. 80.47	12. 65.94	12. 62.68
13. 147	13. 297	13. 9
14. 8	14. 12	14. 18
15. 108	15. 163	15. 178