

R

Dr. Li's GT2 After School Issue 27

Have fun with numbers

$$10.15 - \underline{11} = 4$$

1. $15 - \underline{5} = 10$

2. $18 + \underline{9} = 27$

$$\begin{array}{r} 18 \\ + 9 \\ \hline 27 \end{array}$$

3. $\underline{12} + 26 = 38$

4. $16 + \underline{32} = 48$

$$\begin{array}{r} 16 \\ + 32 \\ \hline 48 \end{array}$$

5. $15 - \underline{6} = 9$

6. $15 - \underline{7} = 8$

7. $28 + \underline{16} = 44$

$$\begin{array}{r} 28 \\ + 16 \\ \hline 44 \end{array}$$

8. $23 + \underline{5} = 28$

9. $\underline{5} + 23 = 28$

Number Puzzle in 3 Letters

11.

$$\begin{array}{r} 48 \\ 59 \\ 284 \\ \hline 209 \end{array}$$

$$\begin{array}{r} 289 \\ 209 \\ + \quad A \quad B \quad C \\ \hline 593 \end{array}$$

A=2
B=0
C=9

12.

$$\begin{array}{r} 8B5 \\ 3A6C \\ + \quad \quad \quad \\ \hline 1220 \end{array}$$

A=3
B=5
C=5

13.

$$\begin{array}{r} 357 \\ 849 \\ + \quad A \quad B \quad C \\ \hline 1206 \end{array}$$

A=8
B=4
C=9

14.

$$\begin{array}{r} 548 \\ \text{A B C} \\ - 220 \\ \hline 328 \end{array}$$

$$\begin{aligned} A &= 5 \\ B &= 4 \\ C &= 8 \end{aligned}$$

17.

$$\begin{array}{r} 153 \\ \text{A 5 C} \\ + 855 \\ \hline 1008 \end{array}$$

$$\begin{aligned} A &= 1 \\ B &= 5 \\ C &= 3 \end{aligned}$$

15.

$$\begin{array}{r} 903 \\ \text{A B C} \\ - 455 \\ \hline 558 \end{array}$$

$$\begin{aligned} A &= 4 \\ B &= 0 \\ C &= 5 \end{aligned}$$

18.

$$\begin{array}{r} 611 \\ \text{A 5 C} \\ - 652 \\ \hline 059 \end{array}$$

$$\begin{aligned} A &= 6 \\ B &= 5 \\ C &= 1 \end{aligned}$$

16.

$$\begin{array}{r} 904 \\ \text{A B C} \\ + 544 \\ \hline 1444 \end{array}$$

$$\begin{aligned} A &= 5 \\ B &= 0 \\ C &= 4 \end{aligned}$$

19.

$$\begin{array}{r} 182 \\ \text{A B C} \\ + 984 \\ \hline 1866 \end{array}$$

$$\begin{aligned} A &= 9 \\ B &= 8 \\ C &= 4 \end{aligned}$$

20.

$$\begin{array}{r} \overset{1}{2} \overset{7}{A} B 9 \\ - 1 9 C \\ \hline 0 6 1 \end{array}$$

$$\begin{aligned} A &= 2 \\ B &= 7 \\ C &= 8 \end{aligned}$$

$$27. 48 \div 2 = 24$$

$$48 \begin{cases} 30 \div 3 = 10 \\ + \\ 18 \div 3 = 6 \end{cases}$$

$$28. 48 \div 3 = 16$$

$$48 \div 3 = 16$$

$$29. 52 \div 2 = 26$$

Mental Division

$$21. 35 \div 5 = 7$$

$$30. 58 \div 2 = 29$$

$$22. 36 \div 2 = 18$$

Add-Sub with 2 Carries-Borrows

$$31. 133 + 87 = 220$$

$$\begin{array}{r} 133 \\ + 87 \\ \hline 220 \end{array}$$

$$23. 39 \div 3 = 13$$

$$32. 126 - 58 = 68$$

$$\begin{array}{r} 126 \\ - 58 \\ \hline 68 \end{array}$$

$$24. 40 \div 5 = 8$$

$$33. 122 + 99 = 221$$

$$\begin{array}{r} 122 \\ + 99 \\ \hline 221 \end{array}$$

$$25. 45 \div 5 = 9$$

$$34. 115 + 88 = 203$$

$$\begin{array}{r} 115 \\ + 88 \\ \hline 203 \end{array}$$

$$26. 46 \div 2 = 23$$

$$35. 114 - 15 = 99$$

$$\begin{array}{r} 114 \\ - 15 \\ \hline 99 \end{array}$$

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$$\begin{array}{r} 36.189 + 29 = 218 \\ 189 \\ + 29 \\ \hline 218 \end{array}$$

$$\begin{array}{r} 45.125 + 99 = 224 \\ 1125 \\ + 99 \\ \hline 224 \end{array}$$

$$\begin{array}{r} 37.122 - 53 = 69 \\ 1122 \\ - 53 \\ \hline 69 \end{array}$$

$$\begin{array}{r} 46.121 - 35 = 86 \\ 1121 \\ - 35 \\ \hline 86 \end{array}$$

$$\begin{array}{r} 38.133 + 77 = 210 \\ 133 \\ + 77 \\ \hline 210 \end{array}$$

$$\begin{array}{r} 47.111 - 14 = 97 \\ 111 \\ - 14 \\ \hline 97 \end{array}$$

$$\begin{array}{r} 39.142 + 68 = 210 \\ 142 \\ + 68 \\ \hline 210 \end{array}$$

$$\begin{array}{r} 48.118 - 29 = 91 \\ 118 \\ - 29 \\ \hline 91 \end{array}$$

$$40.103 - 14 = 89$$

$$\begin{array}{r} 49.107 - 18 = 89 \\ 107 \\ - 18 \\ \hline 89 \end{array}$$

$$\begin{array}{r} 41.137 + 84 = 221 \\ 137 \\ + 84 \\ \hline 221 \end{array}$$

$$\begin{array}{r} 50.126 - 59 = 67 \\ 1126 \\ - 59 \\ \hline 67 \end{array}$$

$$\begin{array}{r} 42.155 + 68 = 223 \\ 155 \\ + 68 \\ \hline 223 \end{array}$$

Listing Factors

Example A:

List ALL the factors of 24.

$$\begin{array}{r} 43.166 + 59 = 225 \\ 166 \\ + 59 \\ \hline 225 \end{array}$$

Solution:

$$24 = 1 \times 24$$

$$= 2 \times 12$$

$$= 3 \times 8$$

$$= 4 \times 6$$

1, 2, 3, 4, 6, 8, 12, 24

$$\begin{array}{r} 44.124 - 45 = 79 \\ 1124 \\ - 45 \\ \hline 79 \end{array}$$

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51.52

1, __, __, __, __, __

57.51

1, __, __, __

52.55

1, __, __, __

58.57

1, __, __, __

53.56

1, __, __, __, __, __, __,
__

59.50

1, __, __, __, __, __

54.49

1, __, __

60. 2 is a prime since there is only way to factor it 1×2 . Similarly, 3 is also another prime. Circle all the prime numbers in the following group.

(11) 12, 13, 14, 15, 16, 17, 18, 19, 20,
21, 22, 23, 24, 25, 26, 27, 28, (29) 30

55.48

1, __, __, __, __, __, __,
__, __, __

Math Joy

61. Mr. Brow has 21 students. If one third of the students are absent, and half of the attending students are girls, how many boys are in class?

56.54

1, __, __, __, __, __, __,
__

7

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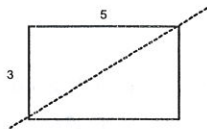
62. Mr. Davis bought 12 yards of wire for the dog runs. If he used the same amount of wire for each of 3 dog runs, how many yards of wire did he use for each run?

$$12 \div 3 = 4$$

63. There are 10 stickers on a page. If you have 4 pages of stickers, how many stickers do you have?

$$4 \times 10 = 40$$

64. A rectangle has length 5 in. and width 3 in. What is the perimeter of the rectangle?



65. Bowser the dog has fleas. Each flea has 6 legs and each tick has 8 legs. Not counting Bowser's legs, there are 48 legs in Bowser's house. The number of flea legs is the same as tick legs. How many fleas and how many ticks are in Bowser's house?

$$48 \div 2 = 24$$

66. Four finches landed on a tree. If there were twice as many sparrows as finches, how many birds were on the tree in total?

$$4 \times 2 = 8$$

67. If each bag of sand weighs 5 pounds, how much do 20 bags of sand weigh?

$$5 \times 20 = 100 \text{ pounds}$$

68. If each peanut costs \$4, how much do 3 peanuts cost?

$$4 \times 3 = 12$$

69. If each ticket costs \$5.00, how much do 6 tickets cost?

$$6 \times 5 = 30.00$$

70. If it took Johnny 5 hours to complete a 45-mile bike trip, how many miles did he travel each hour?

$$45 \div 5 = 9$$

71. If Nita bought 36 crayons and her sister bought 15 crayons, how many crayons did they have in total?

$$36 + 15 = 51$$

72. It takes 15 minutes for Michael to get to Edgewood. If Michael arrives at 8:30, what time did Michael leave to get there?

$$8:30 - 15 = 8:15$$

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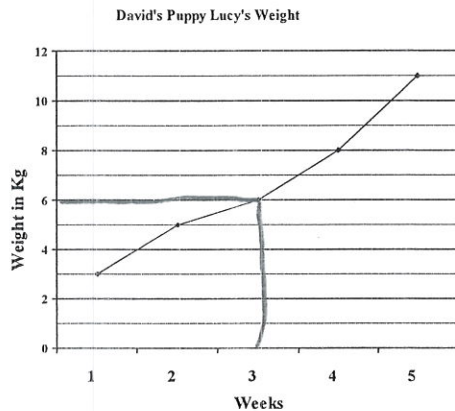
73. Kim had \$30. if she worked 5 hours for \$4 per hour, how much money did she have after she worked?

$$5 \times 4 = 20$$

74. Martin has 8 boxes of crayons. Each box holds 7 crayons. How many crayons does Martin have?

$$8 \times 7 = 56$$

Question set [75 - 76]



75. When did Lucy weigh 6 kg?

3 week

76. How much weight did Lucy gain between week 1 and week 5?

$$11 - 3 = 8$$

77. 500 people are watching a movie in a theater. If the theater has 700 seats, how many more seats are filled than empty?

$$700 - 500 = 200$$

78. Brett used 16 pounds of dog food to feed the puppies. If he gave each puppy half a pound of dog food, how many puppies did he feed?

8

79. If each balloon cost 6 cents, how many cents would 12 balloons cost in total?

$$12 \times 6 = 72$$

80. Stacy put the same amount of grain into each of 7 grain feeders. If she used 56 scoops of grain in total, how many scoops of grain did she put into each feeder?

$$56 \div 7 = 8$$

7, 14, 21, 28, 35, 42, 49