

## “Gateway” Questions

1. Which number will not divide equally by 5 (with no remainder)?

15 25 12 30

2. Which number will not divide equally by 4 (with no remainder)?

15 16 12 40

3. Which number will not divide equally by 3 (with no remainder)?

15 24 12 40

4. Which number will not divide equally by 6 (with no remainder)?

12 6 18 40

5. Which number will not divide equally by 7 (with no remainder)?

14 21 12 28

6. Which number will not divide equally by 10 (with no remainder)?

10 20 12 40

7. Which number will not divide equally by 5 (with no remainder)?

25 65 12 40

8. Which number will not divide equally by 5 (with no remainder)?

55 25 17 20

9. What is  $\frac{1}{2}$  of 24?

10. What is  $\frac{1}{2}$  of 14?

11. What is  $\frac{1}{2}$  of 20?

12. What is  $\frac{1}{2}$  of 22?

13. What is  $\frac{1}{2}$  of 18?

14. What is  $\frac{1}{2}$  of 16?

15. What is  $\frac{1}{2}$  of 26?

16. What is  $\frac{1}{2}$  of 30?

17. What is  $\frac{1}{2}$  of 28?

18. What is  $\frac{1}{2}$  of 32?

19. How many sides in a triangle?

20. How many sides in a square?

21. How many sides in a rectangle?

22. How many sides in a parallelogram?

23. How many even numbers are there between 1 and 9?

24. How many odd numbers are there between 1 and 9?

25. Doubling a number is the same as multiplying it by which Number?

26. Halving a number is the same as dividing it by which number?
27. **Squaring a number is the same as multiplying it by...?**
28. What is the largest number you can make from these digits:           1 5 4
29. **What is the smallest number you can make from these digits:           6 8 4**
30. Double 23 gives:
31. **Double 43 gives:**
32. Double 54 gives:
33. **Double 27 gives:**
34. Twice 36 is:
35. **Twice 45 is:**
36. Twice 43 is:
37. **Twice 37 is:**
38. Twice 39 is:
39. **Twice 48 is:**
40. Twice 120 is:
41. **Twice 144 is:**
42. Half of 56 is:
43. **Half of 68 is:**
44. Half of 76 is:

45. **Half of 84 is:**
46. **Half of 96 is:**
47. **22 less than 56 is:**
48. **28 less than 56 is:**
49. **25 less than 76 is:**
50. **22 less than 78 is:**
51. **22 less than 86 is:**
52. **27 more than 56 is:**
53. **34 more than 63 is:**
54. **27 more than 59 is:**
55. **19 more than 86 is:**
56. **28 more than 66 is:**
57. **What is the total of: 8, 19 and 7 ?**
58. **What is the total of: 18, 9 and 5 ?**
59. **What is the total of: 28, 17 and 6 ?**
60. **What is the total of: 19, 15 and 9 ?**
61. **What is the total of: 23, 13 and 8 ?**
62. **233 minus 12 gives:**
63. **244 minus 16 gives:**

64. 255 minus 22 gives:
65. 263 minus 17 gives:
66. 272 minus 19 gives:
67. 334 minus 15 gives:
68. 278 minus 18 gives:
69. 214 take away 67 gives:
70. 324 take away 56 gives:
71. 414 take away 43 gives:
72. 292 take away 26 gives:
73. 543 take away 27 gives:
74. 866 take away 76 gives:
75. 437 take away 26 gives:
76. 278 take away 77 gives:
77. 214 take away 56 gives:
78. 417 take away 26 gives:
79. 567 take away 44 gives:
80. 458 take away 33 gives:
81. 815 take away 19 gives:
82. 419 take away 45 gives:
83. 325 take away 32 gives:

84. What number must be added to 37 to make 75?
85. What number must be added to 47 to make 78?
86. What number must be added to 38 to make 79?
87. What number must be added to 27 to make 75?
88. What number must be added to 17 to make 76?
89. What number must be added to 34 to make 65?
90. What number must be added to 27 to make 66?
91. What number must be added to 33 to make 57?
92. What number must be added to 35 to make 95?
93. What number must be added to 31 to make 96?
94. What number must be added to 33 to make 78?
95. A film begins at 7:15 p.m. and lasts for one hour and thirty minutes. What time does the film end?
96. A train leaves Cork (Kent station) at 7:30 a.m. and takes two hours and forty-five minutes to reach Dublin. What time does the train arrive in Dublin (Heuston)?
97. A pop concert begins at 10:15 p.m. and lasts for two hours and thirty-five minutes. What time does the concert end?
98. How many degrees are there in a right angle?
99. If the length of the diameter of a circle is 12cm, what is the length of its radius?
100. What fraction of a circle is a semi-circle?
101. How many right angles are there in a square?