Psychometric Success

Numerical Reasoning

Practice Test 1

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Information is provided that requires you to interpret it and then apply the appropriate logic to answer the questions. In other words, you need to work out how to get the answer rather than what calculations to apply. Sometimes the questions are designed to approximate the type of reasoning required in the workplace.

Numerical Reasoning	Operatives	Supervisory	Management
Craft & Technical			Y
Clerical & Administrative			Y
Police, Fire, Military etc.	Y		
Management Trainee	Y		
Graduate & Professional	Y		

The questions will often use number series questions which represent the most popular type of numerical reasoning questions. Numerical reasoning questions are very commonly used in graduate and managerial selection.

Numerical reasoning is an increasingly popular way of assessing candidates during the job selection process. Many people who have been out of the education system for a while or who don't use maths on a day-to-day basis feel intimidated by these types of test. The important thing to remember is that you don't need to have studied mathematics to a high level to do well in these tests. They are primarily tests of reasoning ability and the math needed is invariably straightforward. Although you may need to get back up to speed with percentages, ratios, proportions, fractions and decimals.

You will usually be allowed to use a calculator for these types of question and investing in one which can handle fractions and percentages is a good idea.

Test 1—22 Questions

Instructions: Answer as many questions as you can in 20 minutes. Circle the letter on the right which corresponds to the correct answer. You can use a calculator.

Identify the missing number at the end of the series.

	A	B	C	D	E
1) 3, 11, 19, 27, ?	33	35	37	39	41

A B C D E

	A	B	C	D	E
2) 3, 6, 11, 18, ?	24	25	26	27	28

A B C D E

	A	B	C	D	E
3) 516, 497, 478, 459, ?	436	440	438	452	442

A B C D E

	A	B	C	D	E
4) 316, 323, 332, 343, ?	356	357	358	351	359

A B C D E

	A	B	C	D	E
5) 662, 645, 624, 599, ?	587	566	589	575	570

A B C D E

Identify the missing number within the series.

	A	B	C	D	E
6) 33, ?, 19, 12, 5	31	26	29	27	24

A B C D E

	A	B	C	D	E
7) 11, 19, ?, 41, 55	31	29	26	39	34

A B C D E

	A	B	C	D	E
8) 98, 94, ?, 70, 38	89	85	86	87	88

A B C D E

	A	B	C	D	E
9) 86, ?, 79, 75, 72, 68	82	80	85	84	83

A B C D E

	A	B	C	D	E
10) 20, 30, 25, 35, ?, 40	45	35	25	30	50

A B C D E

11)   Identify the missing number.

7	4		49	16
5	6		25	?

A	B	C	D	E
41	36	35	18	37

A B C D E

12)   Identify the missing number.

4	14		11	31
35	26		73	?

A	B	C	D	E
51	56	45	55	52

A B C D E

13)   Identify the missing number.

7	8		20	1
5	6		2	?

A	B	C	D	E
3	16	25	48	17

A B C D E

14)   Identify the missing number.

41	44		72	78
36	66		62	?

A	B	C	D	E
120	122	130	132	98

A B C D E

15)   Identify the missing number.

5	20	100	3	24
20	80	400	12	?

A	B	C	D	E
86	96	16	106	56

A B C D E

16)   Identify the missing number.

8	?	6	9	7
5	7	3	6	4

A	B	C	D	E
16	14	11	10	9

A B C D E

17) It costs a manufacturer X dollars per component to make the first 1,000 components. All subsequent components cost X÷3 each. When X = $1.50 How much will it cost to manufacture 4,000 components?

A	B	C	D	E
$3,500	$3,000	$4,000	$3,250	$4,500

A B C D E

18) A train travelling at 60 mph enters a tunnel that is 5 miles long. The train is one mile long. How many minutes does it take for the whole train to pass through the tunnel?

A	B	C	D	E
7	4	10	5	6

A B C D E

19) In the Shelbyville election, the Republican candidate received one and a half times as many votes as the Democrat candidate. The Democrat candidate received one third more votes than the Independent candidate. 900 votes were cast for the Independent candidate. How many votes were cast for the Republican candidate?

A	B	C	D	E
900	1,400	1,600	1,000	1,800

A B C D E

20) Anna and John both drive to their new home 400 miles away. Anna drives the family car at an average speed of 60 mph. John drives the removal truck at an average speed of 50 mph. During the journey, Anna stops for a total of 1 hour and 20 minutes, John stops for half as long. What is the difference in minutes between their arrival times?

A	B	C	D	E
60	55	40	90	80

A B C D E

21) A total of 800 copies of a CD were sold. 60% were sold at 50% discount, 20% were sold at 30% discount and the remainder were sold at the full price of $8.95. What was the approximate total revenue in dollars?

A	B	C	D	E
4,679	4,579	4,779	4,499	4,521

A B C D E

22) In a survey, 3/16 of people said that they preferred to use self-service gas stations. 5/8 said that they preferred not to pump their own gas. The remaining 75 respondents said that they had no clear preference. How many people preferred self service?

A	B	C	D	E
75	125	100	133	150

A B C D E

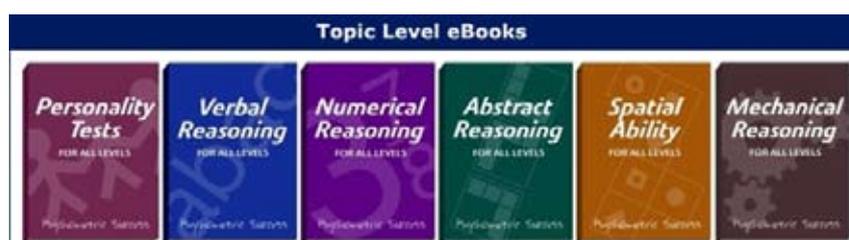**End of Numerical Ability—Reasoning Test 1**

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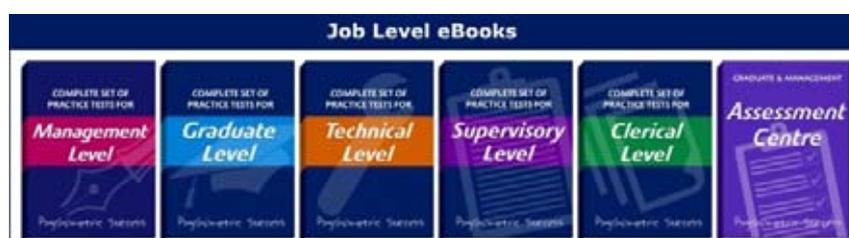
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Answers

1)	B		11)	B		21)	B
2)	D		12)	D		22)	A
3)	B		13)	A			
4)	A		14)	B			
5)	E		15)	B			
6)	B		16)	D			
7)	B		17)	B			
8)	C		18)	E			
9)	A		19)	E			
10)	D		20)	C			