

Psychometric Success

***Numerical
Estimation***

Practice Test 1

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NUMERICAL ESTIMATION – PRACTICE TEST 1

Numerical estimation questions test your ability to make quick estimates of the answers to fairly straightforward numerical questions. To score well on these questions you will need to make quick approximations of the answer. You must avoid the trap of working out the answer exactly, which will take up too much time and prevent you from answering enough questions to get a good score.

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

Numerical estimation is key in many craft and technical jobs where the ability to quickly and accurately estimate material quantities is essential. The speed at which you can answer these questions is the critical measure, as most people could achieve a very high score given unlimited time in which to answer.

Even though numerical estimation questions appear straightforward, it can take some time to develop the optimum compromise between speed and accuracy. Before you attempt to answer each question, look at the range of answers available and ask yourself how accurate your estimate needs to be. For example, is an order of magnitude sufficient or does the answer need to be worked out to the nearest whole number?

If you are out of practice with arithmetic, then try re-learning the times tables up to 12 and practise rough and ready multiplication, division and percentage calculations. Practice can improve your test scores for all types of aptitude tests but numerical estimation is one area where it can really make a difference, so try as many examples as you can.

These sample numerical estimation questions are directly applicable to tests used to select for craft and technical jobs. However, the ability to make quick estimates is a useful skill to have even if you are sitting a graduate or professional level test as it will enable you to roughly check your answers to data interpretation questions.

NUMERICAL ESTIMATION—PRACTICE TEST 1

Test 1—35 Questions

Instructions: You need to estimate the answers to these questions, as you do not have time to calculate them precisely. Answer as many questions as you can in 10 minutes. Circle the letter on the right which is nearest to the correct answer. Do not use a calculator.

1) $347 + 198 = ?$

A	B	C	D	E
650	550	580	590	600

A B C D E

2) $3,509 + 3,492 = ?$

A	B	C	D	E
7000	7200	7100	7250	6950

A B C D E

3) $989 + 413 + 498 = ?$

A	B	C	D	E
2,600	900	1,100	1,900	3,200

A B C D E

4) $304 + 201 + 359 = ?$

A	B	C	D	E
800	950	850	900	970

A B C D E

5) $89 + 21 + 48 + 32 = ?$

A	B	C	D	E
190	170	290	230	220

A B C D E

6) $3,987 - 3,007 = ?$

A	B	C	D	E
7,000	1,270	1,180	790	980

A B C D E

7) $9,601 - 481 = ?$

A	B	C	D	E
9,200	9,100	8,100	9,000	8,050

A B C D E

8) $1,890 - 301 = ?$

A	B	C	D	E
1,500	1,700	1,200	1,600	1,640

A B C D E

9) $7,814 - 3,010 = ?$

A	B	C	D	E
4,400	3,900	4,800	4,200	5,800

A B C D E

10) $989 - 99 + 3,202 = ?$

A	B	C	D	E
3,400	3,200	4,100	3,100	4,500

A B C D E

11) $69 \times 70 = ?$

A	B	C	D	E
490	4,650	5,000	4,800	4,600

A B C D E

12) $41 \times 121 = ?$

A	B	C	D	E
4,100	4,200	500	5,100	4,900

A B C D E

13) $5.8 \times 6.1 \times 9.8 = ?$

A	B	C	D	E
480	250	560	350	260

A B C D E

14) $5.5 \times 4 \times 3.8 = ?$

A	B	C	D	E
60	70	80	100	110

A B C D E

15) $313 \times 2.03 = ?$

A	B	C	D	E
710	660	530	690	630

A B C D E

NUMERICAL ESTIMATION—PRACTICE TEST 1

Circle Answer

- 16) $905 \div 49 = ?$
- | | | | | |
|----|----|----|----|----|
| A | B | C | D | E |
| 18 | 14 | 13 | 15 | 12 |
- A B C D E
-
- 17) $8,017 \div 390 = ?$
- | | | | | |
|-----|-----|----|----|----|
| A | B | C | D | E |
| 200 | 150 | 50 | 15 | 20 |
- A B C D E
-
- 18) $1,207 \div 72 = ?$
- | | | | | |
|----|----|-----|-----|----|
| A | B | C | D | E |
| 20 | 16 | 140 | 160 | 14 |
- A B C D E
-
- 19) $1,447 \div 12.3 = ?$
- | | | | | |
|-----|-----|-----|-----|----|
| A | B | C | D | E |
| 100 | 150 | 120 | 140 | 14 |
- A B C D E
-
- 20) $4,916 \div 711 = ?$
- | | | | | |
|----|---|----|---|---|
| A | B | C | D | E |
| 11 | 5 | 14 | 7 | 4 |
- A B C D E
-
- 21) 45% of 363 = ?
- | | | | | |
|-----|-----|-----|-----|-----|
| A | B | C | D | E |
| 180 | 110 | 160 | 175 | 190 |
- A B C D E
-
- 22) 62% of 987 = ?
- | | | | | |
|-----|-----|-----|-----|-----|
| A | B | C | D | E |
| 610 | 670 | 560 | 640 | 680 |
- A B C D E
-
- 23) 33% of 3,574
- | | | | | |
|-----|------|-----|------|------|
| A | B | C | D | E |
| 930 | 1180 | 900 | 1100 | 1400 |
- A B C D E
-
- 24) 5% of 97,326
- | | | | | |
|-----|------|------|------|------|
| A | B | C | D | E |
| 460 | 4400 | 5000 | 4500 | 4800 |
- A B C D E
-
- 25) 11.5% of 78,754
- | | | | | |
|------|------|------|------|------|
| A | B | C | D | E |
| 7000 | 8000 | 9000 | 9500 | 8500 |
- A B C D E
-
- 26) $1 \frac{1}{4} + 1 \frac{1}{5} \times 3 \frac{1}{2} = ?$
- | | | | | |
|---|---|---|---|---|
| A | B | C | D | E |
| 5 | 8 | 7 | 3 | 6 |
- A B C D E
-
- 27) $1 \frac{3}{5} + 2 \frac{4}{5} \times 7 \frac{1}{2} = ?$
- | | | | | |
|----|----|----|----|----|
| A | B | C | D | E |
| 22 | 25 | 19 | 18 | 26 |
- A B C D E
-
- 28) $3 \frac{3}{16} \times 12 \frac{7}{8} = ?$
- | | | | | |
|----|----|----|----|----|
| A | B | C | D | E |
| 30 | 40 | 50 | 60 | 45 |
- A B C D E
-
- 29) $5 \frac{3}{8} \times 3 \frac{3}{16} = ?$
- | | | | | |
|----|----|----|----|----|
| A | B | C | D | E |
| 20 | 16 | 19 | 21 | 14 |
- A B C D E
-
- 30) $3 \frac{1}{16} \times 6 \frac{1}{8} = ?$
- | | | | | |
|----|----|----|----|----|
| A | B | C | D | E |
| 25 | 24 | 23 | 19 | 22 |
- A B C D E

NUMERICAL ESTIMATION—PRACTICE TEST 1

Circle Answer

- 31) If one ream of paper costs \$3.95 how much would 12 reams cost?

A	B	C	D	E
\$47.00	\$37.00	\$36.00	\$44.00	\$45.00

A B C D E

- 32) John starts work at 8:45 am and finishes at 5:15 pm. He has 90 minutes of breaks. How many hours does he work in 29 days?

A	B	C	D	E
180	200	220	240	260

A B C D E

- 33) A restaurant bill is made up as follows: \$212.43 for starters, \$128.52 for main courses and \$78.96 for deserts, plus a 17% service charge. How much is the bill?

A	B	C	D	E
\$400	\$420	\$440	\$490	\$460

A B C D E

- 34) A rectangular solid is 19 inches high, 19 inches wide and 19 inches long. What is its volume in cubic inches?

A	B	C	D	E
7,000	7,500	8,000	8,500	9,000

A B C D E

- 35) A cylindrical solid is 40 inches high, and has a diameter of 2 inches. What is its volume in cubic inches?

A	B	C	D	E
100	120	140	160	180

A B C D E

End of Numerical Ability—Estimation Test 1

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NUMERICAL ESTIMATION – PRACTICE TEST 1

<i>Answers</i>							
1)	B		16)	A		31)	A
2)	A		17)	E		32)	B
3)	D		18)	B		33)	D
4)	C		19)	C		34)	A
5)	A		20)	D		35)	B
6)	E		21)	C			
7)	B		22)	A			
8)	D		23)	B			
9)	C		24)	E			
10)	C		25)	C			
11)	D		26)	A			
12)	E		27)	A			
13)	D		28)	B			
14)	C		29)	B			
15)	E		30)	D			