

# **Wonderlic.**

**Basic Skills Test -  
Practice Test**

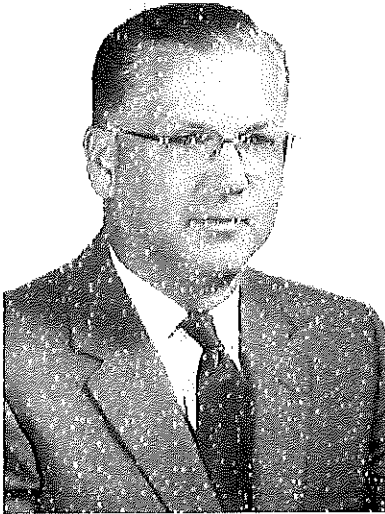
**Wonderlic Basic Skills Test  
Practice Test Series**

**Quantitative Form QS-B**

**PRACTICE TEST**

**Wonderlic.**

© 2003-2011 Wonderlic, Inc.



"We must keep going at this **high level of achievement**, and try to achieve **even better** results as we gain more years of maturity, and new teaching and learning methods are discovered."

- E.F. Wonderlic

### **Welcome to the Wonderlic Basic Skills Test Practice Test.**

Since 1937, more than 200 million people throughout the world have been evaluated with Wonderlic assessments in pursuit of new and exciting career training and employment opportunities.

The Wonderlic Basic Skills Test is a standardized test of adult math and language skills that is commonly administered by schools and employers across the United States. This booklet contains questions which represent the content and average difficulty of the Wonderlic Basic Skills Test – Quantitative Skills. The questions and specific contexts contained in this booklet do not appear on any published form of the Wonderlic Basic Skills Test. Correct answers are provided inside the back cover.

The U.S. Department of Education has determined that a student's level of proficiency with the math and language skills represented in the Wonderlic Basic Skills Test is fundamental to his or her success in career training. Furthermore, the U.S. Department of Labor has deemed these skills to be critical for satisfactory job performance across a broad range of occupations.

*Wonderlic, Inc. wishes you great success in working toward new and higher levels of achievement!*

**Turn The Page**  
to begin reviewing sample  
questions for the

**Wonderlic Basic Skills Test–**  
quantitative skills  
Form QS-B

Correct answers are provided inside the  
back cover of this booklet.

Perform the arithmetic indicated in questions 1–6.

1.  $36 + 17 =$

- A. 53
- B. 45
- C. 43
- D. 55

2.  $59 + 7 =$

- A. 67
- B. 66
- C. 57
- D. 56

3.  $435 - 57 =$

- A. 478
- B. 492
- C. 378
- D. 502

4.  $25 \times 9 =$

- A. 225
- B. 185
- C. 184
- D. 234

5.  $278 \times 7 =$

- A. 1,966
- B. 1,694
- C. 1,496
- D. 1,946

6.  $98 \div 7 =$

- A. 15
- B. 11
- C. 12
- D. 14

Solve each of the applied arithmetic problems in questions 7–12.

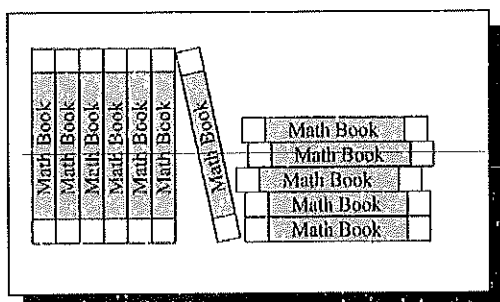
7. At the company picnic, 76 people came from the Westvale plant, while 84 came from the Southway plant. How many people from the two plants were at the picnic?

A. 160  
B. 170  
C. 150  
D. 130

8. There was a total of 15 cars in a parking lot when 9 more cars entered. How many cars were in the parking lot then?

A. 24  
B. 26  
C. 25  
D. 6

9. A teacher needs 25 math books for his class. The books he has are shown below.



How many more books does he need?

A. 3  
B. 12  
C. 13  
D. 37

10. A two year old car is worth \$7,431; a five year old car is worth \$4,219. How much more is the two year old car worth than the five year old car?

A. \$3,211  
B. \$3,212  
C. \$11,650  
D. \$11,640

11. Mary can pack 33 boxes in one hour. How many boxes can she pack in 3 hours?

A. 36  
B. 69  
C. 11  
D. 99

12. On August 1<sup>st</sup>, a plant was 79 centimeters tall. In June of that year it grew 12 centimeters, then 9 more centimeters in July. How many centimeters tall was it on June 1<sup>st</sup>?

A. 67  
B. 70  
C. 100  
D. 58

Perform the math operations indicated in questions 13–20.

13.  $534 \div 8 =$

- A. 66 Remainder 4
- B. 66 Remainder 6
- C. 76 Remainder 3
- D. 76 Remainder 6

14.  $517 \div 32 =$

- A. 16 Remainder 25
- B. 15 Remainder 37
- C. 15 Remainder 7
- D. 16 Remainder 5

15.  $\$345 \div 75 =$

- A. \$4.60
- B. \$4.61
- C. \$4.45
- D. \$4.50

16.  $\frac{1}{5} + \frac{1}{11} =$

- A.  $\frac{11}{55}$
- B.  $\frac{1}{8}$
- C.  $\frac{16}{55}$
- D.  $\frac{2}{16}$

17.  $\frac{4}{7} + \frac{2}{9} =$

- A.  $\frac{50}{63}$
- B.  $\frac{3}{8}$
- C.  $\frac{6}{16}$
- D.  $1 \frac{13}{50}$

18. Reduce  $\frac{16}{22}$  to its lowest terms.

- A.  $\frac{1}{22}$
- B.  $\frac{8}{11}$
- C.  $\frac{1}{2}$
- D.  $\frac{4}{11}$

19.  $\frac{27}{17}$  is equal to:

- A.  $1 \frac{7}{17}$
- B.  $1 \frac{10}{17}$
- C.  $2 \frac{7}{17}$
- D.  $1 \frac{7}{10}$

20. Which of the following numbers is smallest?

- A.  $\frac{1}{5}$
- B.  $\frac{3}{10}$
- C.  $\frac{4}{15}$
- D.  $\frac{3}{16}$

Solve each of the applied math problems in questions 21–25.

21. Kim biked 43.6 kilometers on Monday, 37.5 kilometers on Tuesday and 46.2 kilometers on Wednesday. How many kilometers did she bike in the three days?
- A. 126.3  
B. 148.3  
C. 116.3  
D. 127.3
22. A truck's fuel tank can hold 44 gallons of gasoline. If 6.78 gallons of gasoline are in the tank, how many more gallons are needed to fill the tank?
- A. 35.22  
B. 35.32  
C. 37.22  
D. 37.32
23. Juan needs to lay 120 meters of wire. He has finished laying 78.4 meters of wire. How many more meters of wire must he lay?
- A. 39.6  
B. 38.6  
C. 42.6  
D. 41.6
24. The total restaurant bill for 6 people was \$76.86, including tax and tip. If each person is going to pay the same amount, how much should each person pay?
- A. \$11.86  
B. \$12.81  
C. \$11.81  
D. \$12.86
25. Jim worked 7 hours on Monday, 8 hours Tuesday, 8 hours Wednesday, 10 hours Thursday, and 5 hours Friday. His hourly rate is \$11.50. How much did he earn in the five days week?
- A. \$437.00  
B. \$425.50  
C. \$426.50  
D. \$415.00

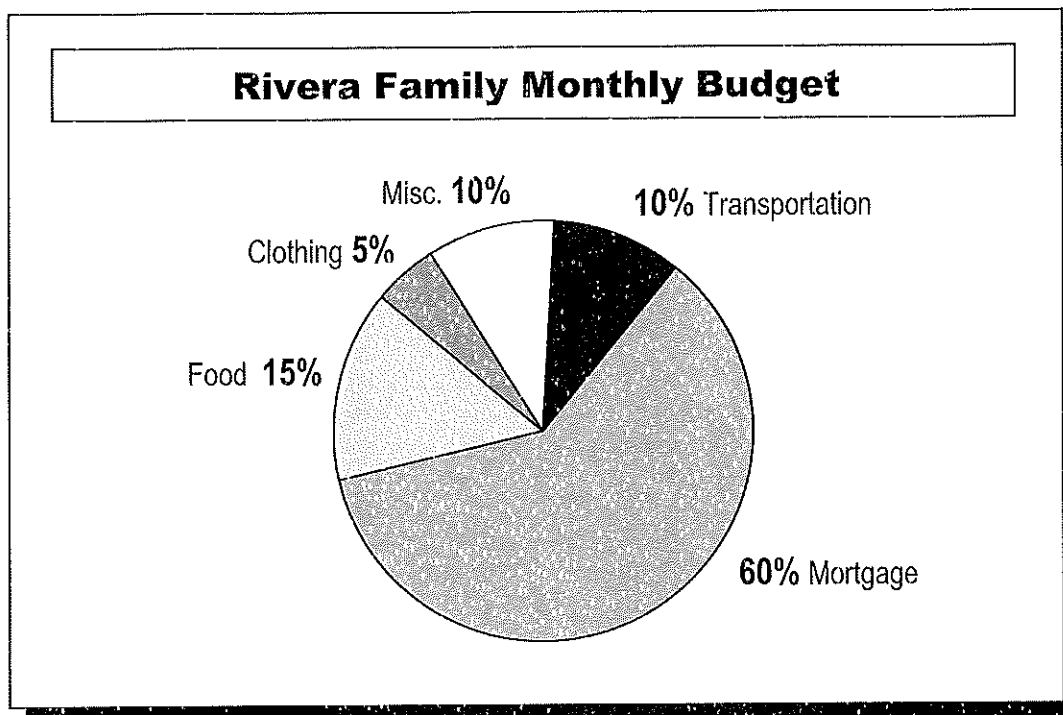
Refer to the figure below to solve the problem in question 26.

Jack's Auto Service – Summary of April Sales Activity		
Division	April Sales	% Increase Over March
Parts .....	\$11,000 .....	10% .....
Services .....	\$70,000 .....	25% .....

26. What was the combined sales revenue in March for the Parts and Services Divisions of Jack's Auto Service?
- A. \$99,600
  - B. \$66,000
  - C. \$67,500
  - D. \$62,400



Refer to the pie graph below to solve each of the applied quantitative problems in questions 27–29.



27. What percent of their budget is spent on food and clothing?
- A. 20%
  - B. 15%
  - C. 5%
  - D. 10%
28. If the Rivera's total monthly budget is \$2,500, how much have they budgeted to spend on transportation each month?
- A. \$10
  - B. \$100
  - C. \$2
  - D. \$250
29. Given their monthly budget of \$2,500, how much have the Rivera's budgeted for their mortgage payment each month?
- A. \$123
  - B. \$150
  - C. \$1,500
  - D. \$1,230

Solve for the positive values of 'z' for the equations in questions 30–33.

30.  $z - 12 = 6$

- A. 10
- B. 15
- C. 18
- D. 6

31.  $3x(1 + y) = 9 + z$  where  $y = 4$ ,  $x = 2$

- A. 27
- B. 25
- C. 21
- D. 22

32.  $\frac{2zy}{y^2} = \frac{14}{y}$

- A. 2
- B. 14
- C. 28
- D. 7

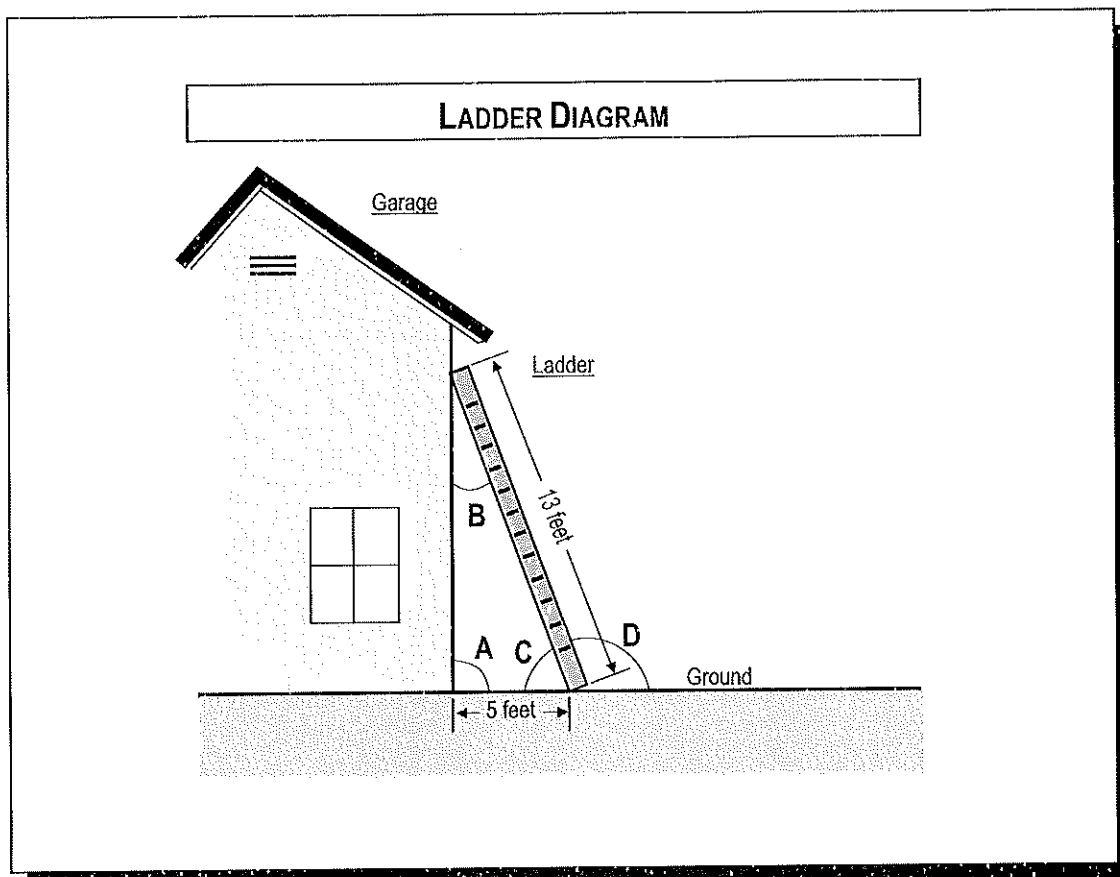
33.  $2zx^2y = 18$  where  $x = 1$ ,  $z = y$

- A. 3
- B. 36
- C. 9
- D. 6

Solve each of the applied quantitative problems in questions 34–38.

34. Paul picked  $2\frac{2}{3}$  bushels of apples. Karl picked  $4\frac{1}{3}$  bushels of apples. Carol picked  $3\frac{2}{3}$  bushels of apples. How many bushels did they pick in all?
- A.  $9\frac{2}{3}$   
B.  $10\frac{2}{3}$   
C.  $9\frac{1}{3}$   
D.  $10\frac{1}{3}$
35. One-third of a store's inventory is children's clothing. Two-fifths of its inventory is women's clothing. What fraction of the total inventory is children's or women's clothing?
- A.  $\frac{2}{15}$   
B.  $\frac{3}{8}$   
C.  $\frac{11}{15}$   
D.  $\frac{8}{15}$
36. Rachel bought a flute for \$265. Sales tax was 5.8%. What is the total cost of the flute with tax?
- A. \$280.37  
B. \$280.27  
C. \$270.80  
D. \$1537.00
37. Beth paid for her vacation in 25 installments. The first installment was \$325, and the next 24 installments were \$8.50 each. How much did her vacation cost?
- A. \$2365  
B. \$204  
C. \$529  
D. \$532
38. The Morrison's car uses one gallon of gasoline for every 28 miles. If gasoline costs \$1.50 per gallon, how many miles can they drive if they spend \$24 on gasoline?
- A. 16  
B. 52  
C. 448  
D. 672

Refer to the diagram below to answer questions 39-41.



39. In the diagram above, how many degrees are in angle A?
- A.  $30^\circ$
  - B.  $45^\circ$
  - C.  $60^\circ$
  - D.  $90^\circ$
40. In total, how many degrees are in angles C and D together?
- A.  $90^\circ$
  - B.  $180^\circ$
  - C.  $270^\circ$
  - E.  $360^\circ$
41. The instructions for a 13-foot ladder state that the bottom of the ladder must be set at least 5 feet from a building. How high can the ladder safely reach on the garage?
- A. 18 feet
  - B. 65 feet
  - C. 12 feet
  - D. 8 feet

Solve each of the applied quantitative problems in questions 42–45.

42. Mel needs to measure  $4\frac{3}{4}$  cups of flour. The only measuring cup he has measures  $\frac{1}{4}$  cup. How many  $\frac{1}{4}$  cups of flour should he use?
- A. 7  
B. 19  
C. 11  
D.  $1\frac{3}{16}$
43. Last month in the village, 125 people were issued a parking ticket. This month only 83 people were issued one. What was the percent reduction from this month to last month in the number of people who were issued a parking ticket?
- A. 33.6%  
B. 66.4%  
C. 6.64%  
D. 3.36%
44. Maria took a group of clients out to dinner, and the total bill was \$227.68 including tax. If Maria left a 15% tip on the total bill, how much did the dinner cost in all?
- A. \$252.75  
B. \$256.95  
C. \$272.85  
D. \$261.83
45. The Spinning Top Store paid \$5.50 per pair for sunglasses. Their markup is 55%. How much do the glasses sell for?
- A. \$7.48  
B. \$8.53  
C. \$11.00  
D. \$12.55

“We must keep going  
at this **high level of  
achievement**, and try  
to achieve **even better**  
results as we gain  
more years of maturity,  
and new teaching and  
learning methods are  
discovered.”

— E.F. Wonderlic

Wonderlic Basic Skills Test Sample Questions Profile— Quantitative Skills Form QS-B					
Question #	Math Level*	Primary Skills Set Required	Full Correct Answer	Correct Answer	
1	1	Perform basic math operations on whole numbers	53	A	1
2	1	Perform basic math operations on whole numbers	66	B	2
3	1	Perform basic math operations on whole numbers	378	C	3
4	1	Perform basic math operations on whole numbers	225	A	4
5	1	Perform basic math operations on whole numbers	1,946	D	5
6	1	Perform basic math operations on whole numbers	14	D	6
7	1	Perform basic math operations on whole numbers in an applied context	160	A	7
8	1	Perform basic math operations on whole numbers in an applied context	24	A	8
9	1	Perform basic math operations on whole numbers in an applied context	13	C	9
10	1	Perform basic math operations involving whole monetary units in an applied context	\$3,212	B	10
11	1	Perform basic math operations on whole numbers in an applied context	99	D	11
12	1	Perform basic math operations involving whole units of measure in an applied context	58	D	12
13	2	Perform multiplication and division on whole numbers	66 Remainder 6	B	13
14	2	Perform multiplication and division on whole numbers	16 Remainder 5	D	14
15	2	Perform multiplication and division on whole numbers	\$4.60	A	15
16	2	Perform basic math operations on proper, improper fractions and mixed numbers	16/55	C	16
17	2	Perform basic math operations on proper, improper fractions and mixed numbers	50/63	A	17
18	2	Perform basic math operations on proper, improper fractions and mixed numbers	8/11	B	18
19	2	Perform basic math operations on proper, improper fractions and mixed numbers	1 10/17	B	19
20	2	Perform comparisons of fractional magnitudes	3/16	D	20
21	2	Perform basic math operations involving decimal fractions in an applied context	127.3	D	21
22	2	Perform basic math operations involving decimal fractions in an applied context	37.22	C	22
23	2	Perform basic math operations involving decimal fractions in an applied context	41.6	D	23
24	2	Perform basic math operations involving fractional monetary units in an applied context	\$12.81	B	24
25	2	Perform basic math operations involving fractional monetary units in an applied context	\$437.00	A	25
26	3	Compute rates, proportions, and percentages in an applied context	\$66,000	B	26
27	2	Evaluate and interpret line, bar, or pie graphs in an applied context	20%	A	27
28	2	Evaluate and interpret line, bar, or pie graphs in an applied context	\$250	D	28
29	2	Evaluate and interpret line, bar, or pie graphs in an applied context	\$1,500	C	29
30	3	Evaluate, simplify and solve variable expressions and equations	18	C	30
31	3	Evaluate, simplify and solve variable expressions and equations	21	C	31
32	3	Evaluate, simplify and solve variable expressions and equations	7	D	32
33	3	Evaluate, simplify and solve variable expressions and equations	3	A	33
34	2	Perform basic math operations involving fractional units of measure in an applied context	10 2/3	B	34
35	2	Perform basic math operations involving fractional units of measure in an applied context	11/15	C	35
36	2	Compute rates, proportions, and percentages in an applied context	\$280.37	A	36
37	2	Compute rates, proportions, and percentages in an applied context	\$529	C	37
38	3	Compute rates, proportions, and percentages in an applied context	448	C	38
39	3	Understand and compute geometric lengths, areas, and volumes in an applied context	90°	D	39
40	3	Understand and compute geometric lengths, areas, and volumes in an applied context	180°	B	40
41	3	Understand and compute geometric lengths, areas, and volumes in an applied context	12 feet	C	41
42	3	Perform basic math operations involving fractional units of measure in an applied context	19	B	42
43	3	Compute rates, proportions, and percentages in an applied context	33.6%	A	43
44	2	Compute rates, proportions, and percentages in an applied context	\$261.83	D	44
45	2	Compute rates, proportions, and percentages in an applied context	\$8.53	B	45

\* Math levels established in accordance with job-related General Education Development (GED) skills content published by the U.S. Department of Labor in the Dictionary of Occupational Titles (DOT).



