

Sample Test Excel Questions 2

Instructions: Below there are a total of seven (7) questions related to Excel. It is expected that you will need approximately 20 minutes to complete these Sample Test Questions, so time yourself accordingly.

Question 1 (3 points)

(Excel) Review the accompanying worksheet image and then answer the question below. The first row and column in the table refer to Excel column and row labels, respectively.

| | A | B | C | D | E | F | G |
|----|---|-----------------------|------------------|--------------------|---------------------|------------------|------------------|
| 1 | | | | | | | |
| 2 | | Speeding Table | | | | | |
| 3 | | First Name | Last name | Speed Limit | Actual Speed | Speeding? | Full Name |
| 4 | | Brian | Baines | 40 | 55 | xxx | xxx |
| 5 | | Jenny | Craig | 55 | 97 | xxx | xxx |
| 6 | | Jimmy | Smits | 65 | 65 | xxx | xxx |
| 7 | | Rachel | Jones | 25 | 28 | xxx | xxx |
| 8 | | Steve | Smear | 45 | 17 | xxx | xxx |
| 9 | | | | xxx | xxx | | |
| 10 | | | | | | | |

What would be the result of the following Excel formula?

=IF(LARGE(E5:E8,2)<SMALL(D5:D8,2),"D5",D7)

- A. D7
- B. 55
- C. 25
- D. D5
- E. None of the answers provided is correct

Question 2 (3 points)

(Excel) Assume that cell E4 in a spreadsheet has the following formula:

=BB\$4+\$C44

What formula will result from copying it into cell G8?

Question 3 (22 points)

(Excel) Review the accompanying worksheet image and then answer the questions below. The first row and column in the table refer to Excel column and row labels, respectively.

| | B | C | D | E | F |
|----|----------------------------|--------------------------|-----------------------------|------------------|-------------|
| 2 | Speeding Fine Chart | | | | |
| 3 | | | | | |
| 4 | Name | Legal Speed Limit | Drivers Actual Speed | Fine Owed | Name |
| 5 | Alicia | 40 | 55 | xxx | Alicia |
| 6 | Bob | 55 | 97 | xxx | Bob |
| 7 | Carlos | 65 | 65 | xxx | Carlos |
| 8 | Darlene | 25 | 28 | xxx | Darlene |
| 9 | Ernie | 45 | 17 | xxx | Ernie |
| 10 | | xxx | xxx | xxx | |

At the county courthouse, speeders pay a fine for exceeding the posted speed limit.

- A) What formula should be entered in cell E5 to show:
- "No Fine" if the driver was not speeding,
 - a flat fine of \$250 if the driver was more than 25 MPH over the speed limit, or
 - a fine of \$50 plus \$5 for each MPH over the stated speed limit otherwise.
- B) Without using the MIN function, what formula should be entered in cell C10 that will determine the lowest posted speed limit in column C?
- C) What formula should be entered in cell D10 to determine the second highest speed of any driver in column D?
- D) What formula should be entered in cell E10 to determine the name of the driver who was driving the fastest?
- E) What is the formula to determine the total number of drivers whose actual speed (column D) exceeded 60 MPH?
- F) What is the formula to determine the average speed of all drivers whose actual speed (column D) exceeded 60 MPH?

Question 4 (9 points)

(Excel) Review the accompanying worksheet image and then answer the questions below. The first row and column in the table refer to Excel column and row labels, respectively.

| | A | B | C | D | E | F |
|---|---|----------|-----|--------|-------|---|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | 15 | -9 | -16 | Hello | |
| 5 | | -6 | 7 | 18 | 65 | |
| 6 | | 9 | 4 | Coffee | 175 | |
| 7 | | Software | 14 | 6.8 | 6 | |
| 8 | | 38 | 109 | | -25 | |
| 9 | | | | | | |

Evaluate each of the following Excel formulas.

A) =IF(SUM(B4:B7)<MIN(B6,C5,D4,E7),E4,"Goodbye")

B) =IF(B5=SMALL(E5:E8,2),SUM(C4:C8),IF(D4>C7,B7,D6))

C) =COUNTIF(B4:C8,">0")+SUMIF(B4:C8,"<0")

Question 5 (10 points)

(Excel) Review the accompanying worksheet image and then answer the questions below. The first row and column in the table refer to Excel column and row labels, respectively.

| | A | B | C | D | E | F | G | H |
|----|---|----|-----|----|----|----|----|---|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | 6 | 11 | 4 | 5 | 10 | 6 | |
| 4 | | 8 | 17 | 8 | 6 | 10 | 8 | |
| 5 | | 10 | 24 | 9 | 6 | 11 | 11 | |
| 6 | | 18 | 32 | 16 | 11 | 17 | 17 | |
| 7 | | 19 | 38 | 21 | 21 | 24 | 21 | |
| 8 | | 23 | 40 | 22 | 22 | 27 | 23 | |
| 9 | | 25 | 41 | 24 | 24 | 27 | 25 | |
| 10 | | 37 | 42 | 31 | 28 | 29 | 27 | |
| 11 | | 38 | 44 | 35 | 32 | 33 | 37 | |
| 12 | | 40 | 48 | 36 | 34 | 37 | 37 | |
| 13 | | 42 | 50 | 44 | 45 | 42 | 42 | |
| 14 | | 44 | 52 | 46 | 52 | 46 | 47 | |
| 15 | | 46 | 53 | 50 | 57 | 49 | 50 | |
| 16 | | 53 | 56 | 58 | 58 | 52 | 54 | |
| 17 | | 55 | 58 | 60 | 63 | 55 | 55 | |
| 18 | | 63 | 72 | 64 | 74 | 58 | 66 | |
| 19 | | 64 | 76 | 67 | 75 | 61 | 68 | |
| 20 | | 72 | 79 | 71 | 81 | 62 | 69 | |
| 21 | | 78 | 82 | 85 | 85 | 65 | 72 | |
| 22 | | 84 | 89 | 89 | 87 | 65 | 76 | |
| 23 | | 85 | 90 | 90 | 93 | 70 | 77 | |
| 24 | | 90 | 94 | 94 | 93 | 74 | 80 | |
| 25 | | 94 | 98 | 96 | 97 | 75 | 80 | |
| 26 | | 96 | 98 | 98 | 97 | 80 | 83 | |
| 27 | | 99 | 100 | 99 | 99 | 99 | 88 | |
| 28 | | | | | | | | |

Evaluate each of the VLOOKUP functions below to determine what value will result..

A) =VLOOKUP(D15, \$D\$8:\$F\$20, 3, FALSE)

B) =VLOOKUP(SUM(B4:G4), \$E\$12:\$G\$24, 3, TRUE)

C) =VLOOKUP(MIN(B14:D18) + MAX(E3:G13), \$C\$10:\$D\$25, 2)

D) =VLOOKUP(B21, \$C\$11:\$G\$22, 4, FALSE)

E) =VLOOKUP(B21, \$C\$11:\$G\$22, 4, TRUE)

Question 6 (4 points)

(Excel) Review the accompanying worksheet image and then answer the questions below. The first row and column in the table refer to Excel column and row labels, respectively.

| | A | B | C |
|---|------|--------|----------------|
| 1 | FICO | APR | Payment |
| 2 | 500 | 9.193% | \$2,046 |
| 3 | 580 | 8.316% | \$1,890 |
| 4 | 620 | 7.147% | \$1,688 |
| 5 | 660 | 6.337% | \$1,553 |
| 6 | 700 | 6.053% | \$1,507 |
| 7 | 760 | 5.831% | \$1,472 |

Note: Assume that the payment amounts correspond to a residential mortgage loan of \$100,000 and that the applicant's FICO score is entered in cell A10.

- A) Provide a formula that uses a lookup function to determine the monthly payment for a primary mortgage with a loan amount of \$100,000. Remember that the applicant's FICO score is entered in cell A10.
- B) Provide a formula that uses a lookup function to determine the APR of the applicant's mortgage loan.

Question 7 (12 points)

(Excel) Review the accompanying worksheet image and then answer the questions below. The first row and column in the worksheet refer to Excel column and row labels, respectively.

| | A | B | C |
|----|---|------------------------------|----------------------|
| 1 | | | |
| 2 | | Employee Salary Table | |
| 3 | | First Name | Annual Salary |
| 4 | | Ann | \$ 16,120.85 |
| 5 | | Bill | \$ 12,888.12 |
| 6 | | Carla | \$ 70,050.56 |
| 7 | | Diane | \$ 35,785.25 |
| 8 | | Ed | \$ 50,690.99 |
| 9 | | Fran | \$ 62,500.01 |
| 10 | | Gene | \$ 22,400.79 |
| 11 | | Homer | \$ 33,333.22 |
| 12 | | Inga | \$ 70,196.18 |
| 13 | | John | \$ 40,404.36 |
| 14 | | Kim | \$ 98,500.52 |

The worksheet above lists the annual salaries for a company's employees.

- (A) What is the **formula** to determine the total number of employees who earn more than \$50,000 in annual salary?
- (B) What is the **formula** to determine the sum of the salaries of employees who earn less than the average annual salary for this group of employees?
- (C) What is the **formula** to determine the sum of the salaries of employees who earn less than the fourth (4th) lowest salary?

Sample Test 2 Answers

1. C

2. $BD\$4+\$C48$

3A) $=IF(D5\leq C5, "No Fine", IF(D5-C5>25, 250, 50+(D5-C5)*5))$ [and other equivalent answers]

3B) $=SMALL(C5:C9, 1)$

3C) $=LARGE(D5:D9, 2)$

3D) $=VLOOKUP(MAX(D5:D9), D5:F9, 3, FALSE)$

3E) $=COUNTIF(D5:D9, ">60")$

3F) $=AVERAGEIF(D5:D9, ">60")$

4A) Goodbye

4B) Coffee

4C) -8

5A) 49

5B) 50

5C) 89

5D) #NA

5E) 61

6A) $=VLOOKUP(A10, \$A\$2:\$C\$7, 3)$

6B) $=VLOOKUP(A10, \$A\$2:\$C\$7, 2)$

7A) $=COUNTIF(C4:C14, ">50000")$

7B) $=SUMIF(C4:C14, "<"&AVERAGE(C4:C14))$

7C) $=SUMIF(C4:C14, "<"&SMALL(C4:C14, 4))$