




PRE-CALC & TRIG

Day 64



Bell Work

5. If $f(x) = (3x + 7)^2$, then $f(1) = ?$

A. 10

B. 16

C. 58

D. 79

E. 100

Bell Work Answer:

5. If $f(x) = (3x + 7)^2$, then $f(1) = ?$

- A. 10
- B. 16
- C. 58
- D. 79
- E. 100

$f(1)$ simply means that they want you to plug 1 in for x and solve Using PEMDAS

$$f(1) = (3(\mathbf{1}) + 7)^2$$

Type this straight into your calculator!
DO NOT BE A HERO!!!

The answer is: **E.) 100**

ACT DAY 4

- Full ACT Math Test (sophomores and juniors)
 - *Yellow Test in Box at front of room*
- Full College Math Placement Exam (seniors)
 - *White Packet next to box at front of room*
- Please make sure all mini tests, and the abbreviated tests are complete as we will be going over them next class.

Guidelines for Today

- You will be given a full ACT packet (we are only going to do the MATH section in class... you can complete the other sections on your own)
- Seniors will be given an Math Placement Exam used at UNL (other colleges use a similar test)
- Both tests allow for 60 minutes to complete

Tips for Taking the Mathematics Test

- Pace yourself
- Use calculator wisely
- Solve the problem
- Locate the solution among the answer choices
- Make sure you answer the question
- Make sure your answer is reasonable
- Check your work

Where to write your answers and show your work

- ACT – There is a bubble sheet at the back of the test booklet... Tear it off and use it!
 - *The math test is section 2. (There are five choices of answers, and 60 problems it should be easy to identify where to fill in your answers). (see next slide of visual).*
 - *I would HIGHLY suggest using the bubble sheet for answers, as this will be the format for the ACT next week. Show all work in the test booklet.*
- Math Placement – Circle answers on the hand out. Use a separate sheet of paper to show your work

Put math
answers in
this section



TEST 1

1 (A B C D)	14 (F G H J)	27 (A B C D)	40 (F G H J)	53 (A B C D)	66 (F G H J)
2 (F G H J)	15 (A B C D)	28 (F G H J)	41 (A B C D)	54 (F G H J)	67 (A B C D)
3 (A B C D)	16 (F G H J)	29 (A B C D)	42 (F G H J)	55 (A B C D)	68 (F G H J)
4 (F G H J)					69 (A B C D)
5 (A B C D)					70 (F G H J)
6 (F G H J)					71 (A B C D)
7 (A B C D)					72 (F G H J)
8 (F G H J)					73 (A B C D)
9 (A B C D)					74 (F G H J)
10 (F G H J)	23 (A B C D)	36 (F G H J)	49 (A B C D)	62 (F G H J)	75 (A B C D)
11 (A B C D)	24 (F G H J)	37 (A B C D)	50 (F G H J)	63 (A B C D)	
12 (F G H J)	25 (A B C D)	38 (F G H J)	51 (A B C D)	64 (F G H J)	
13 (A B C D)	26 (F G H J)	39 (A B C D)	52 (F G H J)	65 (A B C D)	

English Section

TEST 2

1 (A B C D E)	11 (A B C D E)	21 (A B C D E)	31 (A B C D E)	41 (A B C D E)	51 (A B C D E)
2 (F G H J K)	12 (F G H J K)	22 (F G H J K)	32 (F G H J K)	42 (F G H J K)	52 (F G H J K)
3 (A B C D E)	13 (A B C D E)	23 (A B C D E)	33 (A B C D E)	43 (A B C D E)	53 (A B C D E)
4 (F G H J K)	14 (F G H J K)	24 (F G H J K)	34 (F G H J K)	44 (F G H J K)	54 (F G H J K)
5 (A B C D E)	15 (A B C D E)	25 (A B C D E)	35 (A B C D E)	45 (A B C D E)	55 (A B C D E)
6 (F G H J K)	16 (F G H J K)	26 (F G H J K)	36 (F G H J K)	46 (F G H J K)	56 (F G H J K)
7 (A B C D E)	17 (A B C D E)	27 (A B C D E)	37 (A B C D E)	47 (A B C D E)	57 (A B C D E)
8 (F G H J K)	18 (F G H J K)	28 (F G H J K)	38 (F G H J K)	48 (F G H J K)	58 (F G H J K)
9 (A B C D E)	19 (A B C D E)	29 (A B C D E)	39 (A B C D E)	49 (A B C D E)	59 (A B C D E)
10 (F G H J K)	20 (F G H J K)	30 (F G H J K)	40 (F G H J K)	50 (F G H J K)	60 (F G H J K)

TEST 3

1 (A B C D)				36 (F G H J)
2 (F G H J)				37 (A B C D)
3 (A B C D)				38 (F G H J)
4 (F G H J)				39 (A B C D)
5 (A B C D)				40 (F G H J)
6 (F G H J)				
7 (A B C D)	14 (F G H J)	21 (A B C D)	28 (F G H J)	35 (A B C D)

Reading Section

TEST 4

1 (A B C D)				36 (F G H J)
2 (F G H J)				37 (A B C D)
3 (A B C D)				38 (F G H J)
4 (F G H J)				39 (A B C D)
5 (A B C D)				40 (F G H J)
6 (F G H J)	13 (A B C D)	20 (F G H J)	27 (A B C D)	34 (F G H J)
7 (A B C D)	14 (F G H J)	21 (A B C D)	28 (F G H J)	35 (A B C D)

Science Section

Calculators can be used on both tests

Before you begin the test

- Make sure you have a pencil that is sharpened and a calculator
- Please read the following directions together as a class before beginning the test
- No one will talk, except when your instructor warns you that there is only “5 minutes remaining on this test”

MATHEMATICS TEST

60 Minutes—60 Questions

DIRECTIONS: Solve each problem, choose the correct answer, and then fill in the corresponding oval on your answer document.

Do not linger over problems that take too much time. Solve as many as you can; then return to the others in the time you have left for this test.

You are permitted to use a calculator on this test. You may use your calculator for any problems you choose,

but some of the problems may best be done without using a calculator.

Note: Unless otherwise stated, all of the following should be assumed.

1. Illustrative figures are NOT necessarily drawn to scale.
2. Geometric figures lie in a plane.
3. The word *line* indicates a straight line.
4. The word *average* indicates arithmetic mean.

You are to remain silent and work on this test only. After reading the directions the teacher will say: ***“You’ll have 60 minutes to complete this section of the test. You may begin now”***

During the test: Your teacher will fill in the times on the following chart and leave it on the board for the duration of the test:

Test Start Time: _____

Teacher will announce “*5 minutes left*” at: _____

Test End Time: _____

Teacher will say: “Put down your pencils the math test is now over” And move on to the next slide.

If you finish early, go back and check your answers, and please remain quiet for other students who are testing.

At the conclusion of your test:

- Please use the back of the booklet to check your answers.
(page 56 the “–” line tells you the type of problem)
- Record on the bottom of page 56 how many of each type of problem you got correct (we’ll use this as a baseline of where to study, and for comparison on your actual ACT for a grade)

Collect all of your practice tests in one place... you should have the following:

- 3 mini tests (4 after today)
 - An abbreviated test (green packet)
 - A full ACT booklet (from today)
-
- We will be turning them all in at the start of next week

The last 15 – 20 minutes of class

- You can work on previous Mini Tests (these will all count as your homework score for the semester and ultimately a formative quiz score based on completion and growth)
- We'll have our last Mini Test passed out *now*
- If you want another FULL ACT they are available in a box behind my desk... this is not required, just additional resources if you would like (some of you may already have the test)

Homework/In class work for next time

■ Attempt Mini Test 4

Set a timer for yourself for 10 minutes and try to get all 10 problems done

-- OR --

Set a timer and work through all the problems until you are complete and see how long it took you.