Some PSAT Practice ... No Calculator Grind in

3

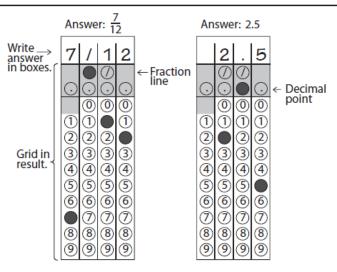


3

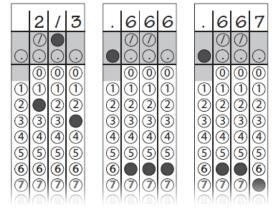
DIRECTIONS

For questions 14-17, solve the problem and enter your answer in the grid, as described below, on the answer sheet.

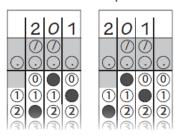
- Although not required, it is suggested that you write your answer in the boxes at the top of the columns to help you fill in the circles accurately. You will receive credit only if the circles are filled in correctly.
- 2. Mark no more than one circle in any column.
- 3. No question has a negative answer.
- Some problems may have more than one correct answer. In such cases, grid only one answer.
- 5. **Mixed numbers** such as $3\frac{1}{2}$ must be gridded as 3.5 or 7/2. (If 3|1|/|2 is entered into the grid, it will be interpreted as $\frac{31}{2}$, not $3\frac{1}{2}$.)
- Decimal answers: If you obtain a decimal answer with more digits than the grid can accommodate, it may be either rounded or truncated, but it must fill the entire grid.



Acceptable ways to grid $\frac{2}{3}$ are:



Answer: 201 - either position is correct



NOTE: You may start your answers in any column, space permitting. Columns you don't need to use should be left blank.

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3

14

$$21x + 14 = 7(3x + a)$$

In the equation above, a is a constant. For what value of a does the equation have an infinite number of solutions?

15

Juliene practiced her dance routine for twice as many minutes on Monday as she did on Tuesday. She practiced her routine those two days for a total of 2 hours and 15 minutes. For how many minutes did Juliene practice her dance routine on Monday? 16

In the expression below, *a* is an integer.

$$12x^2 + ax - 20$$

If 3x + 4 is a factor of the expression above, what is the value of a?

17

$$(ax + by)(cx - dy)$$

In the expression above, a, b, c, and d are non-zero constants and ad = bc. If ac = 18 and bd = 50, what is the value of the coefficient of the xy term when the expression is multiplied out and the like terms are collected?

STOP

If you finish before time is called, you may check your work on this section only.

Do not turn to any other section.

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Answers

Black letter after answer indicates difficulty level (e = easy, m = medium, h = hard).

MATH TEST – CALCULATOR					
27.	D D 65 0,12 1368	h	31.	85	h