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Arithmetic

Sample Questions

The College Board

H\Y'7c``Y[Y'6cUfX]g'U'a]gg]cb!Xf]] Yb'bcH Zcfl dfc hcf[Ub]nUh]cb'h UhVtbbYWg'ghi XYbrg

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13. A machine is currently set to a feed rate of 5.921 inches per minute (IPM). The machinist changes this setting to 6.088 IPM. By how much did the machinist increase the feed rate?
- A. 0.167 IPM
 B. 1.167 IPM
 C. 1.833 IPM
 D. 1.967 IPM
14. 0.075 , 0.75% , $\frac{3}{4}$
- Which of the following correctly orders the values above from least to greatest?
- A. 0.75% , 0.075 , $\frac{3}{4}$
 B. 0.75% , $\frac{3}{4}$, 0.075
 C. $\frac{3}{4}$, 0.75% , 0.075
 D. 0.075 , 0.75% , $\frac{3}{4}$
15. What is the value of 2.84×3.9 ?
- A. 3.408
 B. 11.076
 C. 34.08
 D. 110.76
16. What is 0.8637 rounded to the nearest hundredth?
- A. 0.86
 B. 0.863
 C. 0.864
 D. 0.87
17. 60% of what number is equal to 30?
- A. 0.5
 B. 2
 C. 18
 D. 50
18. If $\frac{4}{3} \div \frac{1}{6} = p$, then the value of p is between which of the following pairs of numbers?
- A. 3 and 4
 B. 5 and 6
 C. 6 and 7
 D. 7 and 9
19. Which of the following inequalities is true?
- A. $\frac{3}{4} < \frac{5}{7}$
 B. $\frac{2}{3} > \frac{5}{6}$
 C. $\frac{5}{8} > \frac{6}{10}$
 D. $\frac{4}{5} < \frac{2}{9}$
20. Carole works at a bookstore and a restaurant. In a 28-day period, Carole worked $\frac{1}{4}$ of the days at the bookstore and did not work $\frac{1}{14}$ of the days. On the remaining days Carole worked at the restaurant. How many days did Carole work at the restaurant during the 28-day period?
- A. 25
 B. 19
 C. 10
 D. 9

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$$(17 \times 3 = 51)$$

19. Choice C is correct. $\frac{5}{8}$ is greater than $\frac{6}{10}$.

$\frac{25}{40} > \frac{24}{40}$

$\frac{3}{4}$ is not less than $\frac{5}{7}$

$\frac{21}{28} < \frac{20}{28}$

$\frac{2}{3}$ is not greater than $\frac{5}{6}$

$\frac{4}{6} > \frac{5}{6}$

$\frac{36}{45} < \frac{10}{45}$

20. Choice B is correct. $\frac{1}{4}$ of the 28 is 7.

$28 \times \frac{1}{4} = 7$

$28 - 7 = 21$

$21 - 2 = 19$

$\frac{1}{4}$ and $\frac{1}{14}$

$28 - (28 \times \frac{2}{18}) = 25$

$28 - 18 = 10$

$10 \times \frac{1}{10} = 1$