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SAT practice test 2

SOLUTIONS

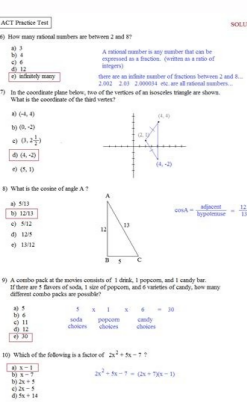
- 16) What is the area of sector ABC?
- a)  $6\pi$   
 b)  $8\pi$   
 c)  $12\pi$   
 d)  $24\pi$   
 e)  $48\pi$
- 
- C is the center of the circle.  
 $\widehat{AB} = 4\pi$
- since  $\widehat{AB} = 4\pi$ , the entire circumference is  $\frac{60}{360} \cdot \frac{4\pi}{x}$   
 $x = 24\pi$
- Therefore, the radius is 12  
 since the radius is 12, the area of entire circle is  $144\pi$ . And, the area of the sector is  $\frac{60}{360} \cdot 144\pi = 24\pi$
- 17) If  $x + 3 = 6$ , then what is  $x - 3$ ?
- a) -3  
 b) -2  
 c) 0  
 d) 2  
 e) 3
- $x + 3 = 6$   
 $x = 3$   
 then,  $x - 3 = 0$
- 18) Lines  $l$  and  $m$  are parallel.  $\angle 1 \neq \angle 2$ . Which of the following statements is not true?
- a)  $1 = 4$  (vertical angles: true)  
 b) 3 and 5 are supplementary angles true  
 c)  $2 = 7$  true  
 d)  $3 = 8$  true  
 e) 4 and 7 are supplementary angles true
- 
- 19) 30% of the 200 students are athletes who play a sport. If 20% of the athletes play basketball, how many students are basketball players?
- a) 10  
 b) 12  
 c) 14  
 d) 15  
 e) 16
- 30% of 200 = 60 athletes  
 20% of 60 = 12 basketball players
- 20) In a bag, the ratio of red to blue marbles is 3:4. If there are 12 blue marbles in the bag, what is the probability of choosing a blue marble?
- a)  $\frac{3}{4}$   
 b)  $\frac{3}{7}$   
 c)  $\frac{4}{7}$   
 d)  $\frac{1}{3}$   
 e)  $\frac{7}{12}$
- If there are 12 blue marbles, then there are 9 red marbles.  
 $p(\text{choosing blue}) = \frac{12 \text{ blue}}{21 \text{ total}} = \frac{4}{7}$

1. The weekly fee for staying at the Pleasant Lake Campground is \$20 per vehicle and \$10 per person. Last year, weekly fees were paid for  $v$  vehicles and  $p$  persons. Which of the following expressions gives the total amount, in dollars, collected for weekly fees last year?

A.  $20v + 10p$  *20 per v*  
 B.  $20p + 10v$   
 C.  $10(v + p)$   
 D.  $30(v + p)$   
 E.  $10(v + p) + 20p$

ACT Practice Test

- 16) What is the probability that a number selected at random from the set  $\{2, 5, 10, 11, 14, 19, 25\}$  will be even and divisible by 5?
- a)  $\frac{1}{7}$   
 b)  $\frac{3}{7}$   
 c)  $\frac{4}{7}$   
 d) 1  
 e) 0
- 17) On a standard  $(x, y)$  coordinate plane, what is the distance from  $(5, -7)$  to the origin?
- a) -1  
 b) 2  
 c) 12  
 d)  $2\sqrt{6}$   
 e)  $\sqrt{74}$
- 18) What is the difference between  $3.6$  and  $2.\overline{36}$ ?
- a) 1.24  
 b) 1.237  
 c) 1.236  
 d) 1.24  
 e) 1.236
- (note: a vinculum bar over the number indicates the digits are repeated)
- 19) If  $s = 3$  and  $8^t = 4^{t+2}$ , what is  $t$ ?
- a)  $2\frac{1}{2}$   
 b)  $\frac{2}{3}$   
 c)  $3\frac{1}{3}$   
 d) 7  
 e) 10
- 20) What is the equation of a circle with center at  $(0, 0)$  and passes through  $(3, -4)$ ?
- a)  $x^2 - y^2 = 7$   
 b)  $x^2 + y^2 = 5$   
 c)  $x^2 + y^2 = 25$   
 d)  $x^2 - y^2 = 25$   
 e)  $x^2 + y^2 = 1$





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