

Fifth Grade

1. Let x be the amount of time Jill rode the bus. Therefore she walked $x+10$ minutes, adding this up we have $2x+10=28$, and solving for x we get x to be 9. Therefore she walked 19 minutes, D
2. $1^2+2^2+3^2+4^2=30$, D
3. The next term is found by subtracting 12 from the previous term, therefore the missing term is $33-12=21$, C
4. Since the denominator can't be 0, the numerator must be 0. The denominator is any other number, and the product of any number and 0 is 0, A
5. Circumference= $2(\pi)(r)$, and r is 7. Using $\pi=22/7$ as an approximation we get the circumference to be approximately 44, C
6. $1+1=2$, C
7. Son's age= x , Jack's age= $3x$; Fourteen years later, Son's age= $x+14$, Jack's age= $3x+14$; $2(x+14)=3x+14 \rightarrow x=14$, Jack's current age is therefore 42, D
8. The first group had 3 students, the 2nd group had twice the amount of this, or 6 students, 3rd group had 12, 4th group had 24, and 5th group had 48. $3+6+12+24+48=93$ students, B
9. $B=A+15$, we can rewrite the fraction as $A/(A+15)=2/3$, solving for A results in $A=30$, and $B=45$, thus $A+B=75$, D
10. 10 minutes= 600 seconds $(0.15)=90$ seconds for the first lap, B
11. From 5 Q, 1D to 5D, 1Q we have 5 different values he could have, B
12. If the median of seven CONSECUTIVE integers is 4, then the list of these integers is 1,2,3,4,5,6 and 7. Thus the mean is 4. A
13. $34(80 \text{ meters})(3.3\text{ft}/1\text{meter})=8976$ ft, D
14. $3x+36=54$, $x=6$, A
15. With the old speed limit, Joe arrives in $560/70=8$ hours, with the new speed limit he arrives in $560/80=7$ hours, so 1 hour faster, A
16. 5 gum=2 licorice, 5 gummy worms=40 gum; 40 gum=16 licorice, 16 licorice=5 gummy worms, 1 gummy worm=3.2 licorice, E

17. $10(19.5)=195$ =sum of total students, $3(16)=48$ =sum of 3 students, $195-48=147/7=21$, C
18. $567*432=244944$, C
19. $s^2=8s$, $s=8$, $s^2=64$, D
20. $.30(x)=.60(200)$, $x=400$, C
21. Highest card=10, after the 10 is gone, the 2nd highest card remaining would be 6, B
22. $45(.07)=31.5$, C
23. $1762+2412+9812=13986$, $1+3+9+8+6=27$, A
24. $2(7)+5(2)+24$, C
25. 80% of 50 is 40, he made 10 so far, thus he must make 30 out of the next 35. C
26. $10+9+8+7+6+5+4+3+2+1=11(10)/2=55$, D
27. Area of big square= $25x^2$, area of small square= $4x^2$, area of triangle= $5x^2$; $34x^2=884$, $x^2=26$, B
28. $1/2+1/3+1/4+1/5=77/60$, D
29. 11:03 AM; 57 minutes til 12:00 PM, 10 hours til 10:00 PM, thus 10 hours and 57 minutes, which translates into 657 minutes which is 39420 seconds, D
30. $xy=45$, $x+y=14$, $x=5$, $y=9$, positive difference=4, A