**4th Grade Sample test**

**Objective 1.1**

1. **Dana used a rule to make a number pattern. Her rule is to multiply by 2. Which number pattern follows Dana's rule?**

**A** **4, 6, 9, 10, 12**

**B** **2, 4, 8, 16, 32**

**C** **5, 7, 9, 11, 13**

**D** **1, 3, 6, 9, 12**

2. **Jim used an addition rule to make this number pattern.**

| |
|---|
| **3, 7, 11, 15, 19** |

**Which number pattern could be made using the same rule that Jim used?**

**A** **2, 5, 8, 11, 14**

**B** **4, 8, 12, 16, 20**

**C** **5, 8, 11, 14, 17**

**D** **1, 3, 6, 9, 12**

3. **A subtraction rule was used to make the pattern of numbers in the table.**

| | | | | | | |
|---|---|---|---|---|---|---|
| **31** | **29** | **27** | **25** | **23** | **?** | **?** |

**If the pattern continues, what would be the next two numbers?**

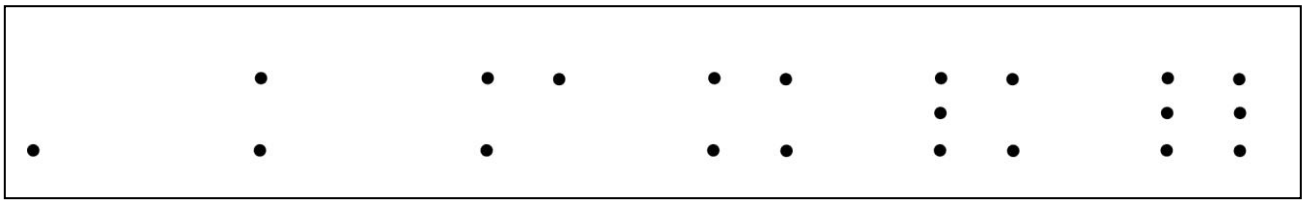
**A** **25, 27**

**B** **22, 21**

**C** **21, 19**

**D** **24, 25**

**4. The pattern shown below shows an increasing number of dots.**



**If the pattern continues, what would be the next two figures?**

**A**

**C**

**B**

**D**

**Objective 1.2a**

**5. Travis used multiplication and addition to make this number pattern.**

| 2, 7, 22, 67 |
|---|

**What rule could Travis have used for the pattern?**

**A** **add 5, then multiply by 2**

**B** **multiply by 4, then add 1**

**C** **add 3, then multiply by 2**

**D** **multiply by 3, then add 1**

**6. A function machine used a rule to change Robert's numbers into different numbers. The table shows Robert's numbers and the function machine's changed numbers.**

| Robert's Numbers | Function Machine's Numbers |
|---|---|
| 1 | 4 |
| 4 | 7 |
| 7 | 10 |
| 11 | 14 |
| 12 | 15 |

**Which rule could the function machine have used to change Robert's numbers?**

**A** add 3

**B** subtract 3

**C** add 1

**D** subtract 1

**7. This increasing number pattern was made using a rule.**

| 28, 35, 42, 49, 56 |
|---|

**Which rule could have been used to make this pattern?**

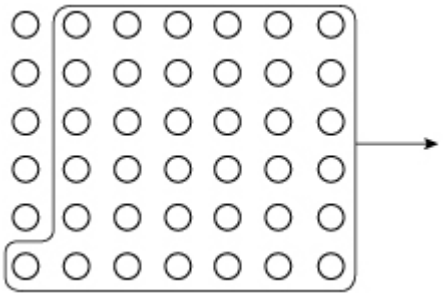
**A** add 3

**B** multiply by 3

**C** add 7

**D** multiply by 7

**Objective 1.2b**



**8. Which number sentence could represent the picture above?**

**A** $42 - 37 = n$

**B** $37 + 42 = n$

**C** $42 + 5 = n$

**D** $37 - 5 = n$

**9. What value of $x$ makes this equation true?**

$$x - 11 = 34$$

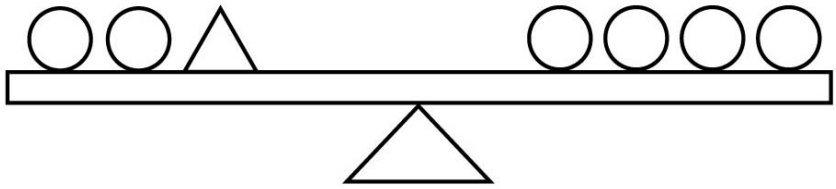
**A** 23

**B** 25

**C** 43

**D** 45

**10. The scale below is balanced.**



**If one triangle is added to the left side, how many circles should be added to the right side to keep the scale balanced?**

**A 4**

**B 3**

**C 2**

**D 1**

**Objective 2.1a**

**11. Which number has a digit in the thousands place that is twice the value of the digit in the tens place?**

**A 11,985**

**B 6,328**

**C 28,841**

**D 32,121**

**12. Bridget's uncle was born in the year 1935. What digit is in the hundreds place in 1935?**

**A 1**

**B 9**

**C 3**

**D 5**

**13. The highest city in the world is 12,087 feet above sea level. What is the place value of the 2 in 12,087?**

**A ten thousands**

**B thousands**

**C hundreds**

**D tens**

**Objective 2.1b**

**14. Wiley Post traveled fifteen thousand, five hundred ninety-six miles. Which shows that distance written as a numeral?**

**A 1556**

**B 1596**

**C 15,596**

**D 15,956**

**15. What is five hundred two and seventy-one hundredths written in numerals?**

**A 5027.10**

**B 527.10**

**C 502.71**

**D 52.71**

**16. The price of a CD player is thirty-nine dollars and ninety-five cents. What is the price of the CD player written as a numeral?**

**A $3.95**

**B $39.95**

**C $309.50**

**D $399.50**

**17. Mary-Anne bought a car for twelve thousand, forty-nine dollars. What is this amount of money written as a numeral?**

**A $1,249.00**

**B $12,000.49**

**C $12,049.00**

**D $12,490.00**

**Objective 2.2**

**18. Which sentence is <u>true</u>?**

**A 163,406 < 163,511**

**B 15,321 > 15,325**

**C 7800 = 780**

**D 907 > 970**

**19. Which number has the <u>greatest</u> value?**

**A 0.45**

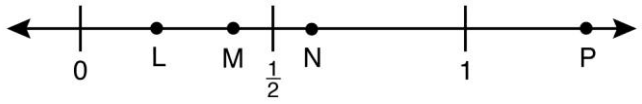
**B 0.54**

**C 4.05**

**D 4.50**

**Objective 2.3a**

**20. Which point <u>best</u> describes the location of 0.4 on the number line?**



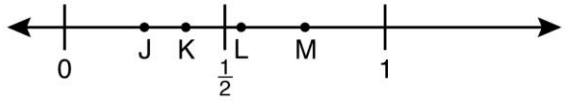

**A L**

**B M**

**C N**

**D P**

**21. Which point <u>best</u> describes the location of $\frac{3}{4}$ on the number line?**



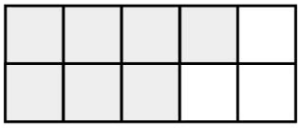

**A J**

**B K**

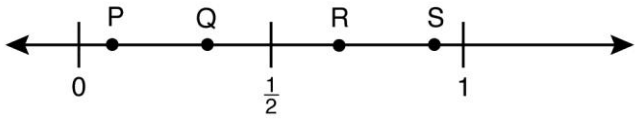
**C L**

**D M**

**22. The shaded part of the large rectangle represents a fraction.**



**Which point on the number line <u>best</u> represents the location of the fraction that is the shaded part of the rectangle?**



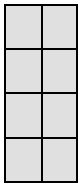

**A P**

**B Q**

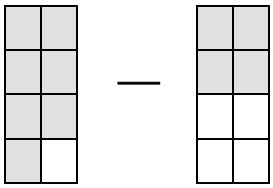
**C R**

**D S**

**Objective 2.3b**
**23. This is 1.**



**What fraction represents the difference shown below?**



**A** $\frac{9}{8}$

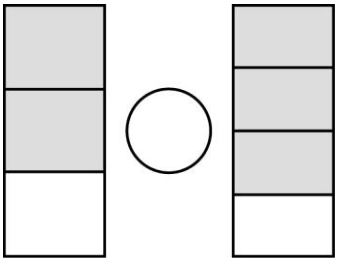
**B** $\frac{7}{8}$

**C** $\frac{4}{8}$

**D** $\frac{3}{8}$

**24. This is 1.**

**What symbol makes the statement true?**



**A** <

**B** >

**C** =

**D** ≥

**25. Mrs. Smith bought 35 dozens of donuts for the youth group. Which is closest to the number of donuts that she bought?**

**A 370**

**B 380**

**C 390**

**D 400**

**26. A store received about 300 phone calls last week. At that rate, which of these is a reasonable number of phone calls the store would receive in 16 weeks?**

**A 2023**

**B 4124**

**C 4624**

**D 6000**

**27. Debbie rode her bicycle 12 miles every day for five months. There were 153 days in these five months. How many total miles did she ride?**

**A 60 mi**

**B 165 mi**

**C 765 mi**

**D 1836 mi**

**28.**

$54 \div 6 =$

**A 6**

**B 7**

**C 8**

**D 9**

**29. The fact family below is missing a fact.**

$3 \times 8 = 24$
$8 \times 3 = 24$
$24 \div 8 = 3$
$__ \times __ = __$

**Which is the missing fact?**

**A $24 \div 3 = 8$**

**B $24 \div 4 = 6$**

**C $24 + 3 = 27$**

**D $24 - 4 = 20$**

**30. Which number is <u>both</u> a factor of 12 and a multiple of 2?**

**A 0**

**B 4**

**C 8**

**D 10**

**31. Mrs. Gregg and 26 of her students are going on a field trip. They will be traveling in school vans. If each van can seat 8 passengers, about how many vans will they need?**

**A 2**

**B 3**

**C 4**

**D 5**

**32. Jay cooked a dozen eggs for himself and 3 other family members. If they shared the eggs <u>equally</u>, how many eggs did each person get?**

**A 3**

**B 4**

**C 7**

**D 12**

**33. A movie theater in Oklahoma City has 675 seats arranged in 9 rows in the theater. If each row has the same number of seats, how many seats are in each row?**

**A 125**
**B 92**
**C 87**
**D 75**

**Objective 3.3**

**34. Which is closest in value to 68 + 23 ?**

**A** **60 + 23**

**B** **68 + 25**

**C** **70 + 20**

**D** **75 + 25**

**35.**

| **120 × 24** |
|---|

**Which of these is a way to use front-end rounding to find the product of the numbers above ?**

**A** **120 × 24**

**B** **12 × 2**

**C** **15 × 30**

**D** **150 × 3**

**36. Cody rounded to the nearest tens place when estimating the product below.**

| **395 × 73** |
|---|

**Which shows the expression rounded to the nearest tens place?**

**A** **390 × 80**

**B** **400 × 70**

**C** **390 × 70**

**D** **400 × 80**

**Objective 4.1a**

**37. Which letter below best shows perpendicular segments?**

**A T**

**B X**

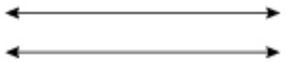
**C S**

**D N**

**38. Which best shows parallel lines?**

**A**

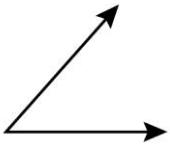
**C**



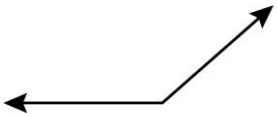
**B**

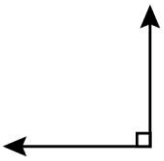
**D**

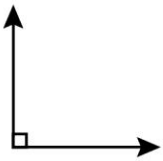
**objective 4.1b**

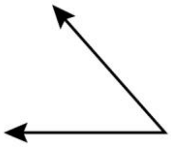
**39.** 

**This angle is less than 90 degrees. Which angle below is also less than 90 degrees?**

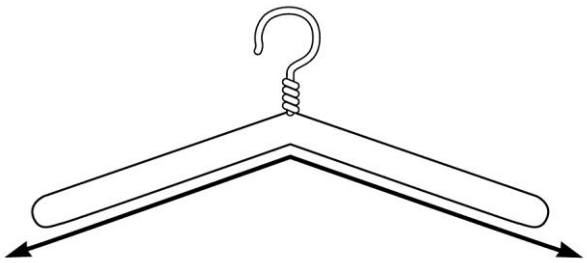
**A** 

**B** 

**C** 

**D** 

**40.**



**The coat hanger above forms which kind of angle?**

**A straight angle**

**B right angle**

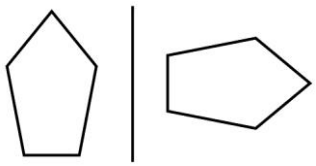
**C acute angle**

**D obtuse angle**

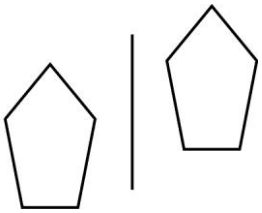
**Objective 4.3**

**41. Which picture below shows a slide of the figure from left to right?**

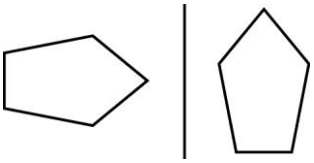
**A**



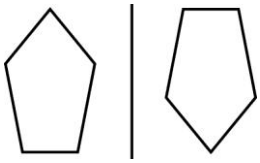
**B**



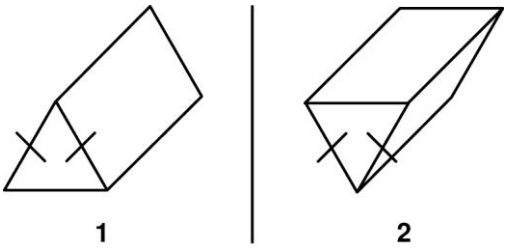
**C**



**D**



**42.**




**Which best describes the change to the triangular prism from figure 1 to figure 2?**

**A** slide

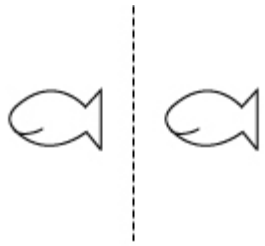
**B** reflect

**C** turn

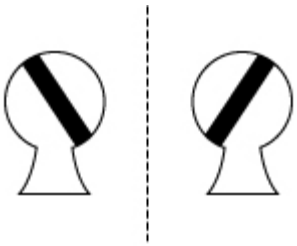
**D** shrink

**43. Which best represents a rotation of the figure across the line?**

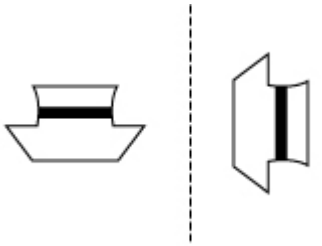
**A**



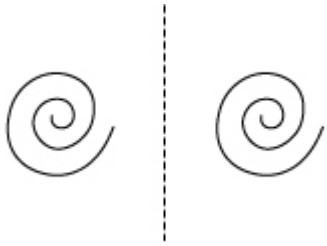
**C**



**B**



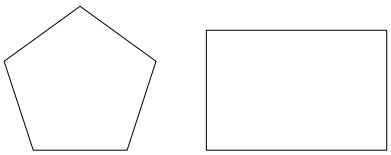
**D**



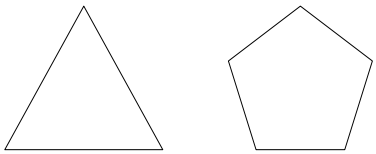
objective 4.3b

**44. Which pair of shapes can be used to make a triangular prism?**

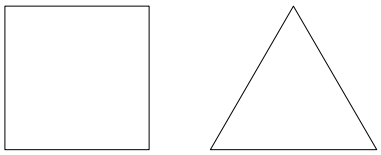
**A**



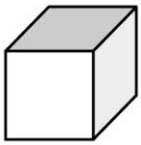
**B**

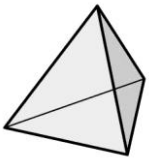


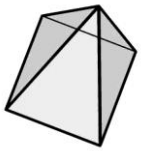
**C**

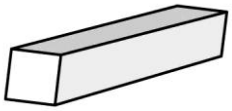


**45. Which figure could have been made using only equilateral triangles?**

**A** 

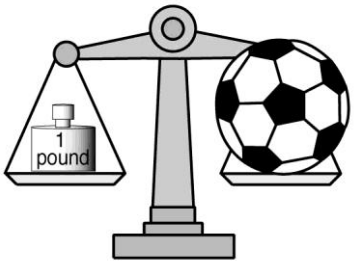
**B** 

**C** 

**D** 

Objective 4.4a

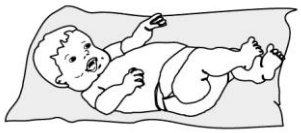
**46.A ball weighs about 1 pound.**




**Which of these also weighs about 1 pound?**

**A**

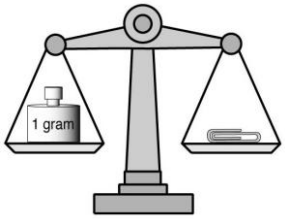
**B**



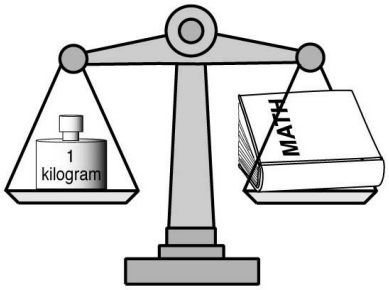
**C**

**D**

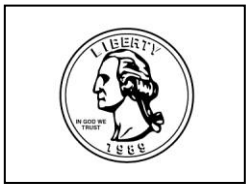
**47. A small paperclip weighs about 1 gram.**




**A textbook weighs about 1 kilogram.**




**About how much does a quarter weigh?**



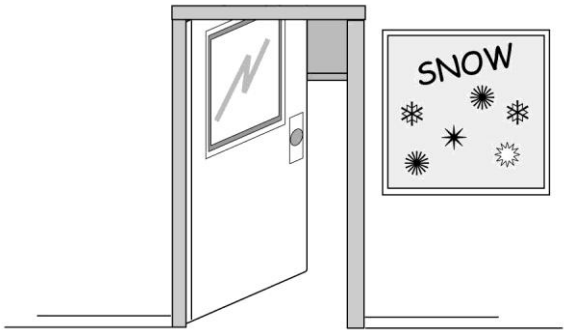

**A** 1 g

**B** 10 g

**C** 1 kg

**D** 10 kg

Objective 4.4b




**48. Sue measured the height of her classroom door. Which is closest to the height of the door?**

**A** 7 inches

**B** 7 feet

**C** 7 yards

**D** 7 miles

**49. Which could be the length of a school hallway?**

**A** 30 centimeters

**B** 30 inches

**C** 30 meters

**D** 30 miles

**50. John took a flight from Oklahoma City to Dallas. It lasted about 50 minutes. If he arrived at 10:20 A.M., what time did his plane leave?**

**A** 9:00 A.M.

**B** 9:20 A.M.

**C** 9:30 A.M.

**D** 9:50 A.M.

**51. Jack saw the following items while shopping:**

| | |
|---|---|
| **Shirts** | **$16** |
| **Pants** | **$21** |
| **Shoes** | **$32** |
| **Jackets** | **$45** |
| **(All prices include tax)** | |

**Jack has $80. How much money should he have left after paying for one jacket and one shirt?**

**A** $19

**B** $35

**C** $61

**D** $64

**52. Look at the picture of the receipt below.**

***Red's Grocery***

**Bread……. $1.35**
**Milk……... $2.45**
**Chips……..$2.19**
**Eggs……$3.48**
**School supplies…. $7.89**

**Total: $17.36**

**What is the total cost for the bread and milk?**

**A** $3.60
**B** $3.70
**C** $3.80
**D** $3.90

**Objective 5.1a**

**53. Five friends recorded how many glasses of milk each drank in a week. They recorded their results in a chart.**

| Name | Number of Glasses of Milk |
|---|---|
| Jan | 𝍸 𝍸 \|\| |
| Mark | 𝍸 𝍸 𝍸 \|\|\|\| |
| Christa | 𝍸 \|\|\|\| |
| Todd | 𝍸 𝍸 𝍸 𝍸 \| |
| Angela | 𝍸 \|\|\| |

**Based on the information in the chart, which person had 3 fewer glasses of milk than Jan?**

**A** Mark

**B** Christa

**C** Todd

**D** Angela

**54. The table shows the locations of five different craters.**

| Location | Diameter (kilometers) |
|---|---|
| **Arizona** | **1.186** |
| **Mexico** | **170** |
| **Africa** | **17** |
| **Australia** | **0.875** |
| **Canada** | **13** |

**Based on the information in the table, what is the difference between the diameters of the largest crater and the smallest crater?**

**A** 0.311 km

**B** 169.125 km

**C** 157 km

**D** 1173 km

Objective 5.1b

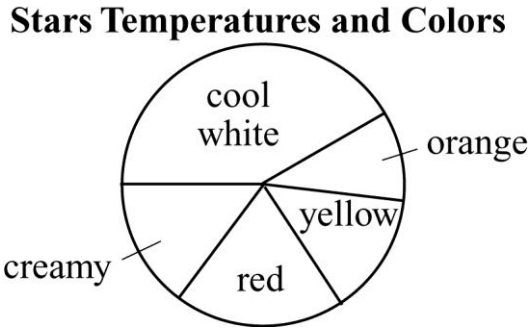
**55. The table below shows temperatures and colors of several types of stars.**

**Star Temperatures and Colors**

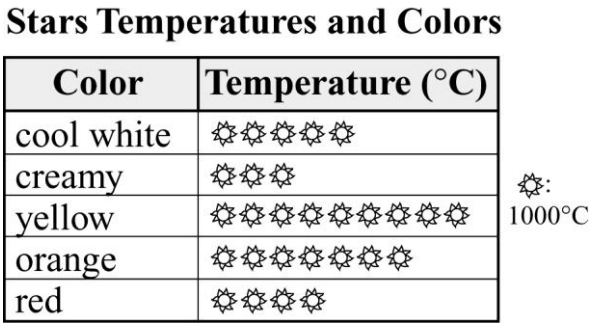
| Temperature (°C) | Color |
|---|---|
| 10,000 | cool white |
| 3000 | red |
| 6000 | yellow |
| 7000 | creamy |
| 4500 | orange |

**Which graph best represents the information in the table?**

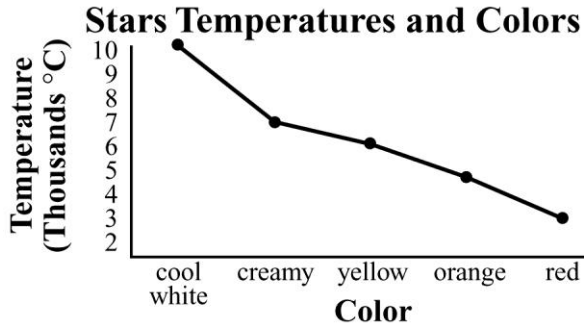
**A**



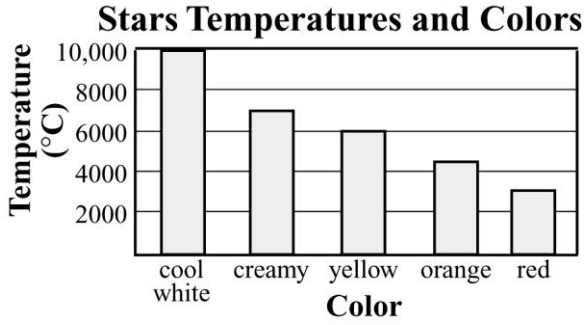

**C**



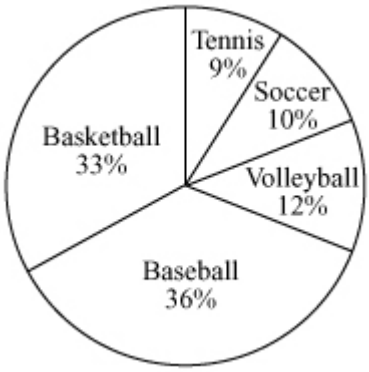

**B**




**D**



**56. The students at LeMay Elementary were asked to name their favorite sport. The circle graph shows the percentage of the students who chose each sport.**




**Which two sports did almost half of the students choose as their favorite?**

**A** baseball and volleyball

**B** basketball and tennis

**C** volleyball and soccer

**D** tennis and baseball

Answer sheet

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