



الإجابات نهاية الامتحان

Q1

Multiple choice

1. A glass pitcher contains 65 ounces of juice which is poured equally into six glasses. How many ounces of juice does each glass contain?
a. 1 b. 10 c. 5 d. 11
2. In a furniture shop, a table comes with six chairs. Which of the formulae below connects the number of tables, T, and the number of chairs, C?
a. $C = T + 6$ b. $C = 6T$ c. $T = 6C$ d. $T = C + 6$
3. The opposite of $-2/5$ is .
a. $2/5$ b. $5/2$ c. $-5/2$ d. -10
4. The mean of 6,5,2,7,5 is .
a. 20 b. 4 c. 5 d. 25
5. The constants in the following equation $F + 2 = 6$ is
a. 2 and 6 b. 2 c. 6 d. F
6. An integer lying between 2 and -10 is
a. 3 b. 0 c. -11 d. 5
7. A glass pitcher contains 65 ounces of juice which is poured equally into six glasses. How many ounces of juice remains in the pitcher?
A. 5 B. 10 C. 1 d. 11
- 8 - The additive inverse of the number – 44.5 is
a. -44.5 b. $1/-44.5$ c. 5.44 d. $|-44.5|$



9. The like terms in the algebraic expression $(5n + 2n + 5)$ are ...

A. $5n, 2n$ B. $-n, n$ C. $5, 5$ D. $5, 5n$

10. The following mathematical expression $S = 4 \times 7$ IS

a. a numerical expressions b. an equation c. an algebraic expressions

11. $5^2 + 6^2 \div 9 =$

A. 54 B. 25 C. 24 D. 29

12. The smallest integer satisfies the inequality $x > -3$ is

A. 2 B. -3 C. 6 D. 1

13. If: $y + 3 = 4$, then $4y =$

A. 1 B. -1 C. 4 D. 7

14. If the price of one pen equals 9 L.E., then the price of 4 pens =

A. 13 B. 36 C. $9/4$ D. $4/9$

15. $2 \times 2 \times 2 \times 2 \times 2 =$

A. 25 B. 10 C. 2^5 D. 2×5

16. For the data set 1, 1, 2, 5, 6, 6, 9 the median is 5.....

A. 5 B. 4 C. 6 D. 1



17. A flower shop counted the number of flowers sold during a 5 month period. The distribution of this data is show in the histogram provided. What is the center of this distribution?



A. May B. June C. April D. July

18. If: $z - 2 = 3$, then $z + 4 = \dots$

A. 1 B. 7 C. 9 D. 5

19. The smallest odd prime number is \dots

A. 3 B. 11 c. 2 d. 7

20. For the data set 1, 1, 2, 5, 6, 6, 9 the mode is \dots

A. 5 B. 9 C. 1 and 6 D. 2

21. Write the prime factorization of 42 =

a. $2 \cdot 3 \cdot 7$ b. $2 \cdot 3 \cdot 6$ c. $2 \cdot 5 \cdot 7$

22. Which pair of numbers has a GCF of 15?

A. 10, 15 B. 30, 60 C. 21, 45 D. 45, 75

23. If: $8x = 0$, then, $100x = \dots$

A. 1 B. 100 C. 8 D. 0



24. A flower shop counted the number of flowers sold during a 5 month period. The distribution of this data is show in the histogram provided. What is the most number of flowers the shop sold in a given month?



A. 45 B. 70 C. 80 D. 90

25. If $x=1$ then $1^9 = \dots$

A. 1 B. 9 C. 1/9 D. 0.9

26. Find the range for the set of numbers (36, 17, 22, 43, 11, 56, 17, 71)

A. 107 B. 60 C. 71 D. 11

27. $2^3 + 3^2 = \dots$

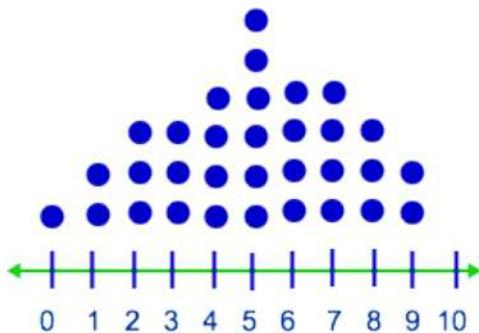
A. 25 B. 13 C. 14 D. 17

28. the GCF of 12 and 56 is

a. 12 b. 10 c. 6 d. 4

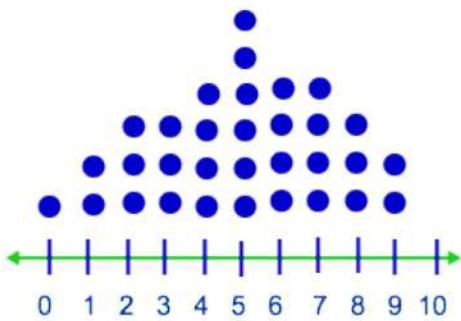


29. Mrs. Frame's class counted the number pencils that each student had in his/her desk. The distribution of this data is show in the dot plot provided. What is the center of this distribution?



A. 3 B. 2 C. 5 D. 7

30. Mrs. Frame's class counted the number pencils that each student had in his/her desk. The distribution of this data is show in the dot plot provided. What is the most number of pencils that her students found?



A. 5 B. 2 C. 9 D. 10

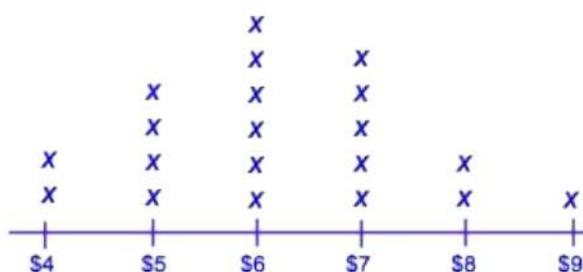


31 . A flower shop counted the number of flowers sold during a 5 month period. The distribution of this data is show in the histogram provided. Which month were most of the flowers sold in?



A. May B. June C. April D. July

32. Mr. Ali wanted to see how much money his students spent on school lunch in a given day. The distribution of this data is shown in the plot provided. Use mean to solve for the center of this distribution.

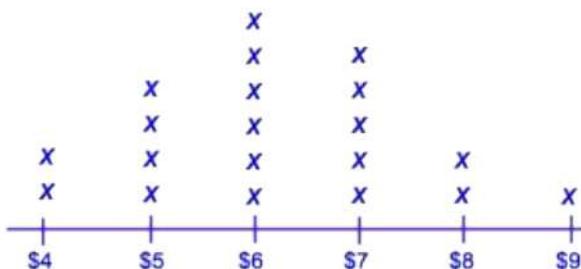


Amount of Money Spent on School Lunch

A. \$ 6 B. \$ 6.2 C. \$ 5.2 D. \$ 5



33. Mr. Sommers wanted to see how much money his students spent on school lunch in a given day. The distribution of this data is shown in the plot provided. What is the highest amount of money spent on lunch by one of Mr. Sommers's students?

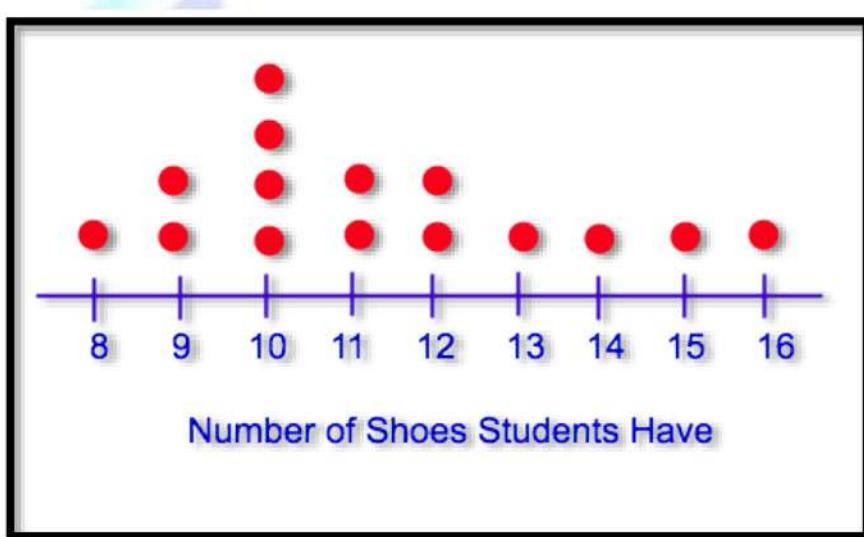


Amount of Money Spent on School Lunch

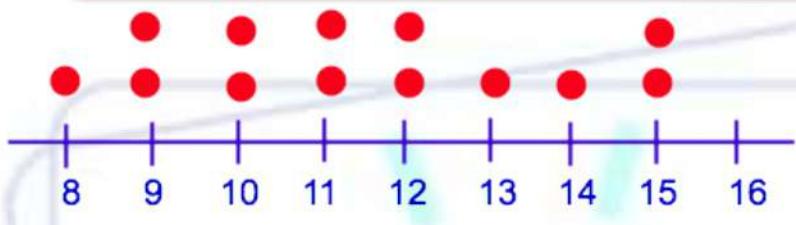
A. \$ 6 B. \$ 7 C. \$ 8 D. \$ 9

34. Miss. Little wants to know how many pairs of shoes each of her students owns. She decides to ask each of her students to write the number of pairs of shoes that he or she owns. This data is displayed in the provided chart. Select the answer that contains the dot plot that most accurately displays Miss Little's class data.

13	12	11	10	12
14	10	10	11	15
9	16	10	9	8

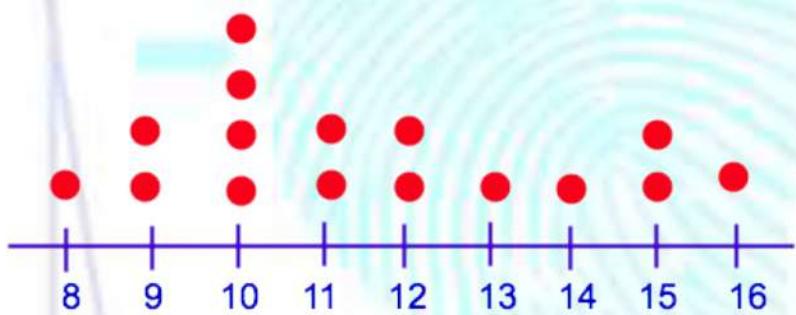


a.



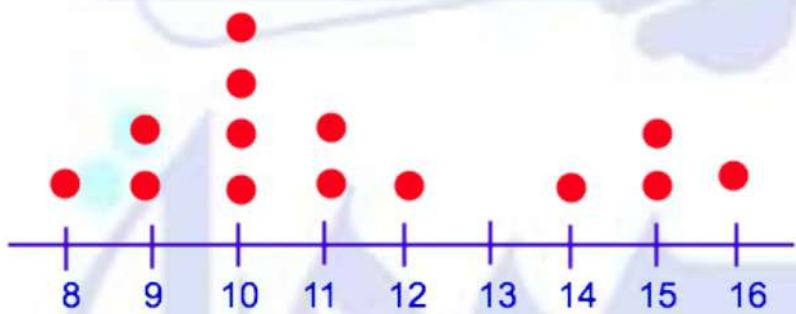
Number of Shoes Students Have

b.



Number of Shoes Students Have

c.



Number of Shoes Students Have

d.

35. Find the median for the set of numbers. (17, 24, 8, 19, 6, 34, 10, 28, 48, 12)

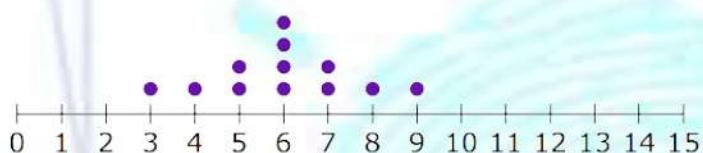
A. 6 B. 19 C. 18 D. 34



36. If b cm is the length of a rectangle and c cm is the width, write down a formula for W if the perimeter of the rectangle is W cm.

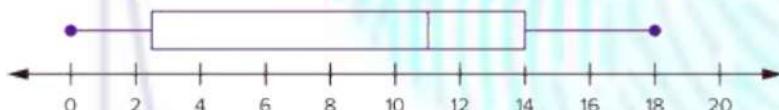
a. $W = b \times c$ b. $W = 2b \times 2c$ c. $W = b + c$ d. $W = 2b + 2c$.

37. By using the following dot plot, the range =.....



A. 4 B. 12 C. 6 D. 15

38. By using the following box plot, the range =.....



A. 20 B. 18 C. 14 D. 16

39. Select the outlier of the following data set: 10, 0, 2, 5, 4, 88, 6, 7, 9, 3

A. 88 B. 0 C. 10 D. 3

40. The mean is affected by outlier in the data set

a. True b. False

41. The sum of six numbers is 42, Then the mean of these numbers is

A. 6 B. 7 C. 48 D. 36

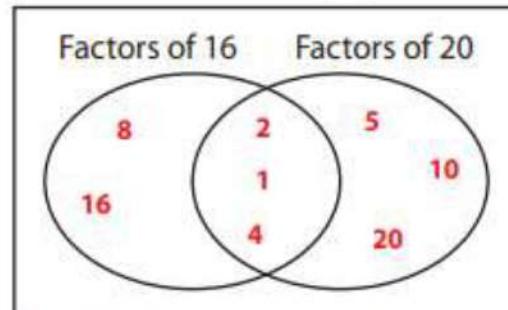


Q2

Find the greatest common factor for each pair of numbers using Venn

16,20

- a) Complete the venn diagram
- b) Common factors are
- b) $\text{GCF}(16, 20) =$



Q3

Complete the following table

Ali has 8 red balls, 3 green balls, 6 yellow balls, 3 orange balls, 13 black balls and 15 blue balls in his bag.

Mean :

Median :

Mode :

Range :

Q4

Simplify each expression using the correct order of operations

- $(3 \times 4) \div (7 + 9 - 10)$

- $8 \times (10 - 6) \div 2 + 4$

- $(10 \div 2) \times 7 + 5 - 4$

- $6 \times (8 - 3 + 5) \div 10$

- $10 - 6 \times 5 \div (2 + 4)$



• $7 \div (4 \times 2 + 9 - 10)$

• $((10 - 6 + 5) \div 9) \times 2$

• $(10 - 6 + 8 \div 2) \times 3$

Q5

In one week, Aya spent x minutes on the internet. Sammy spent 15 minutes less than Aya.

(a) Write down an expression for how long Sammy spent on the internet

(b) Ali spent three times as long as Aya on the internet

Write down an expression for how long Ali spent on the internet.

(c) Write down an expression for total time spent on the internet.

Q6

Find the value

❖ $6 \div (8x - 3)$ if $(x = 0.5) =$

❖ $19x \div 10 + 5 + 4$ if $(x = 10) =$

❖ $4 \times p^3 - 20$ if $(p = 2) =$

❖ $p^3 + [4 + (2 - 1)]$ if $(p = 2) =$



❖ $P3 + [5 - (3 + 1)]$ if $(p = 2) =$

❖ $9 + (p^2 - 3) \div 2$ if $(p = 5) =$

Q7

Write an algebraic expression for each phrase

- 12 more than m
- x times 6
- 25 less than a
- s divided by 10
- the sum of 6 and k
- twice x
- 4 more than twice p



Q1

Multiple choice

1. A glass pitcher contains 65 ounces of juice which is poured equally into six glasses. How many ounces of juice does each glass contain?
a. 1 b. 10 c. 5 d. 11
2. In a furniture shop, a table comes with six chairs. Which of the formulae below connects the number of tables, T, and the number of chairs, C?
a. $C = T + 6$ b. $C = 6T$ c. $T = 6C$ d. $T = C + 6$
3. The opposite of $-2/5$ is .
a. $2/5$ b. $5/2$ c. $-5/2$ d. -10
4. The mean of 6,5,2,7,5 is .
a. 20 b. 4 c. 5 d. 25
5. The constants in the following equation $F + 2 = 6$ is
a. 2 and 6 b. 2 c. 6 d. F
6. An integer lying between 2 and -10 is
a. 3 b. 0 c. -11 d. 5
8. A glass pitcher contains 65 ounces of juice which is poured equally into six glasses. How many ounces of juice remains in the pitcher?
A. 5 B. 10 C. 1 d. 11
- 8 - The additive inverse of the number - 44.5 is
a. -44.5 b. $1/-44.5$ c. 5.44 d. $|-44.5|$



27. The like terms in the algebraic expression $(5n + 2n + 5)$ are ...

A. $5n, 2n$ B. n, n C. $5, 5$ D. $5, 5n$

28. The following mathematical expression $S = 4 \times 7$ IS

a. a numerical expressions b. an equation c. an algebraic expressions

29. $5^2 + 6^2 \div 9 = \dots$

A. 54 B. 25 C. 24 D. 29

30. The smallest integer satisfies the inequality $x > -3$ is

A. 2 B. -3 C. 6 D. 1

31. If: $y + 3 = 4$, then $4y = \dots$

A. 1 B. -1 C. 4 D. 7

32. If the price of one pen equals 9 L.E., then the price of 4 pens =

A. 13 B. 36 C. $9/4$ D. $4/9$

33. $2 \times 2 \times 2 \times 2 \times 2 = \dots$

A. 25 B. 10 C. 2^5 D. 2×5

34. For the data set 1, 1, 2, 5, 6, 6, 9 the median is 5.....

A. 5 B. 4 C. 6 D. 1



35. A flower shop counted the number of flowers sold during a 5 month period. The distribution of this data is show in the histogram provided. What is the center of this distribution?



A. May B. June C. April D. July

36. If: $z - 2 = 3$, then $z + 4 = \dots$

A. 1 B. 7 C. 9 D. 5

37. The smallest odd prime number is \dots

A. 3 B. 11 C. 2 D. 7

38. For the data set 1, 1, 2, 5, 6, 6, 9 the mode is \dots

A. 5 B. 9 C. 1 and 6 D. 2

39. Write the prime factorization of 42 =

a. $2 \cdot 3 \cdot 7$ b. $2 \cdot 3 \cdot 6$ c. $2 \cdot 5 \cdot 7$

40. Which pair of numbers has a GCF of 15?

A. 10, 15 B. 30, 60 C. 21, 45 D. 45, 75

41. If: $8x = 0$, then, $100x = \dots$

A. 1 B. 100 C. 8 D. 0



42. A flower shop counted the number of flowers sold during a 5 month period. The distribution of this data is show in the histogram provided. What is the most number of flowers the shop sold in a given month?



A. 45 B. 70 C. 80 D. 90

43. If $x=1$ then $1^9 = \dots$

A. 1 B. 9 C. 1/9 D. 0.9

44. Find the range for the set of numbers (36, 17, 22, 43, 11, 56, 17, 71)

A. 107 B. 60 C. 71 D. 11

27. $2^3 + 3^2 = \dots$

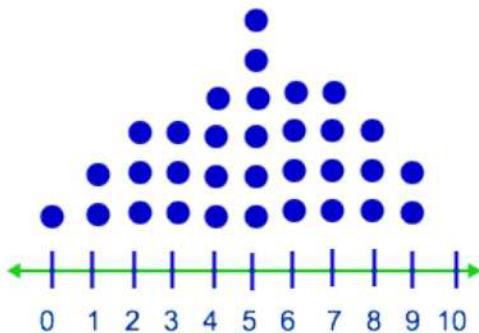
A. 25 B. 13 C. 14 D. 17

30. the GCF of 12 and 56 is

a. 12 b. 10 c. 6 d. 4

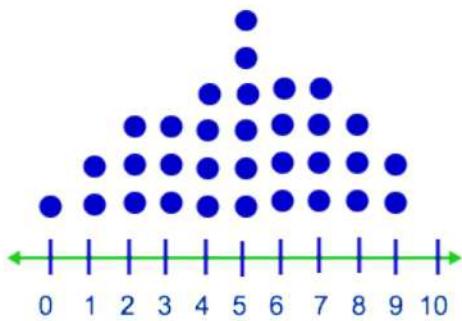


31. Mrs. Frame's class counted the number pencils that each student had in his/her desk. The distribution of this data is show in the dot plot provided. What is the center of this distribution?



A. 3 B. 2 C. 5 D. 7

30. Mrs. Frame's class counted the number pencils that each student had in his/her desk. The distribution of this data is show in the dot plot provided. What is the most number of pencils that her students found?



A. 5 B. 2 C. 9 D. 10

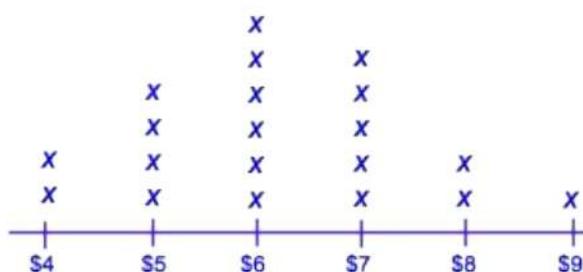


31 . A flower shop counted the number of flowers sold during a 5 month period. The distribution of this data is show in the histogram provided. Which month were most of the flowers sold in?



A. May B. June C. April D. July

32. Mr. Ali wanted to see how much money his students spent on school lunch in a given day. The distribution of this data is shown in the plot provided. Use mean to solve for the center of this distribution.

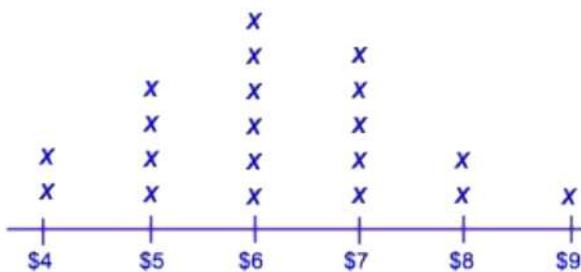


Amount of Money Spent on School Lunch

A. \$ 6 B. \$ 6.2 C. \$ 5.2 D. \$ 5



33. Mr. Sommers wanted to see how much money his students spent on school lunch in a given day. The distribution of this data is shown in the plot provided. What is the highest amount of money spent on lunch by one of Mr. Sommers's students?

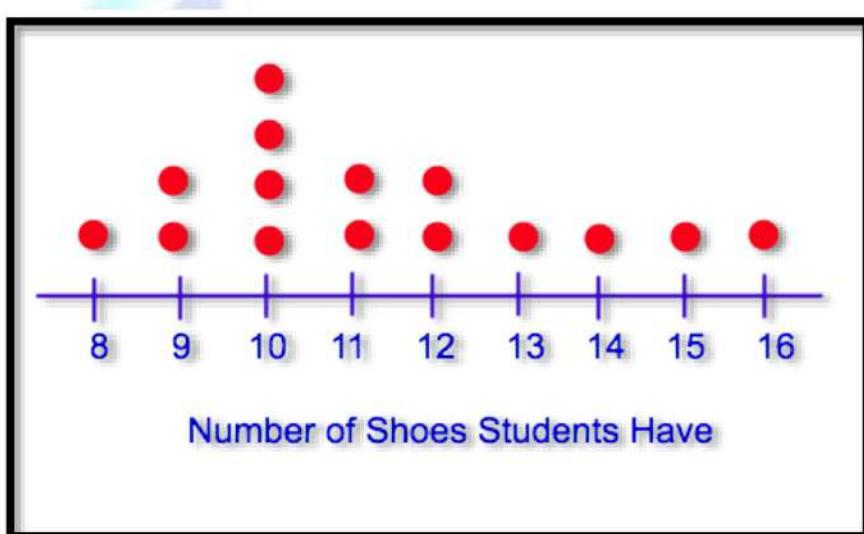


Amount of Money Spent on School Lunch

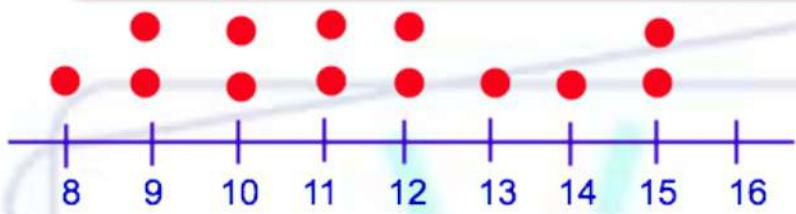
A. \$ 6 B. \$ 7 C. \$ 8 D. \$ 9

34. Miss. Little wants to know how many pairs of shoes each of her students owns. She decides to ask each of her students to write the number of pairs of shoes that he or she owns. This data is displayed in the provided chart. Select the answer that contains the dot plot that most accurately displays Miss Little's class data.

13	12	11	10	12
14	10	10	11	15
9	16	10	9	8

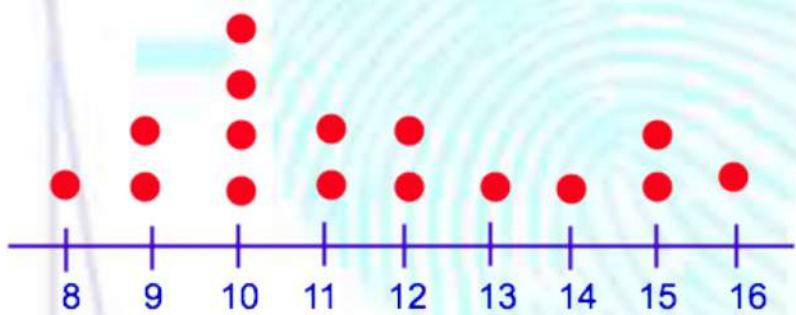


e.



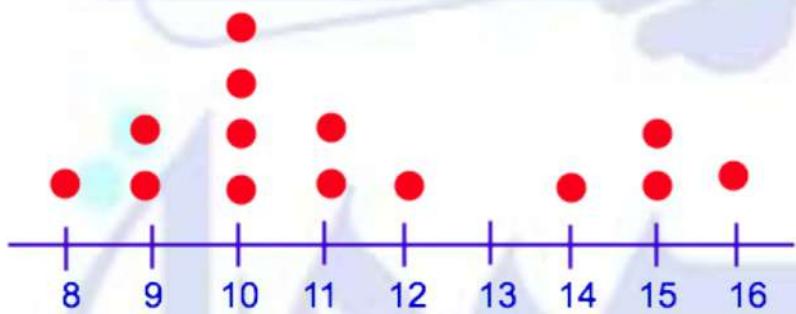
Number of Shoes Students Have

f.



Number of Shoes Students Have

g.



Number of Shoes Students Have

h.

35. Find the median for the set of numbers. (17, 24, 8, 19, 6, 34, 10, 28, 48, 12)

A. 6 B. 19 C. 18 D. 34