

تجميعة أسئلة وفق الهيكل الوزاري حسب منهج ريفيل بدون الحل



تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ← المناهج الإماراتية ← الصف العاشر العام ← رياضيات ← الفصل الثالث ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 2025-06-14 16:48:31

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منهج انجليزي | ملخصات وتقارير | مذكرات وبنوك | الامتحان النهائي | للمدرس

المزيد من مادة
رياضيات:

إعداد: عصام الدبايه

التواصل الاجتماعي بحسب الصف العاشر العام



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف العاشر العام والمادة رياضيات في الفصل الثالث

حل مراجعة امتحانية وفق الهيكل الوزاري منهج بريدج

1

تجميعة أسئلة وفق الهيكل الوزاري منهج ريفيل متبوعة بالحل

2

تجميعة أسئلة القسمين الورقي والالكتروني وفق الهيكل الوزاري منهج بريدج

3

تجميعة أسئلة وفق الهيكل الوزاري منهج بريدج القسم الالكتروني بدون الحل

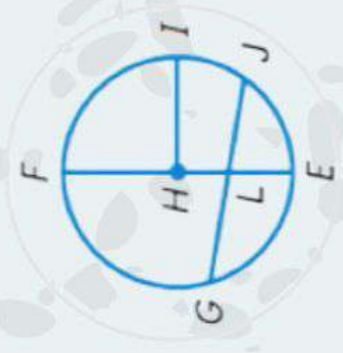
4

تجميعة أسئلة وفق الهيكل الوزاري منهج بريدج القسم الورقي بدون الحل

5



UNITED ARAB EMIRATES
MINISTRY OF EDUCATION



10^{GEN.}

MATH DEF.



Reveal
MATH

Integrated II
UAE Edition
Grade 10
Student Edition



ملف وفيدويوهات أسئلة الـهـيكل

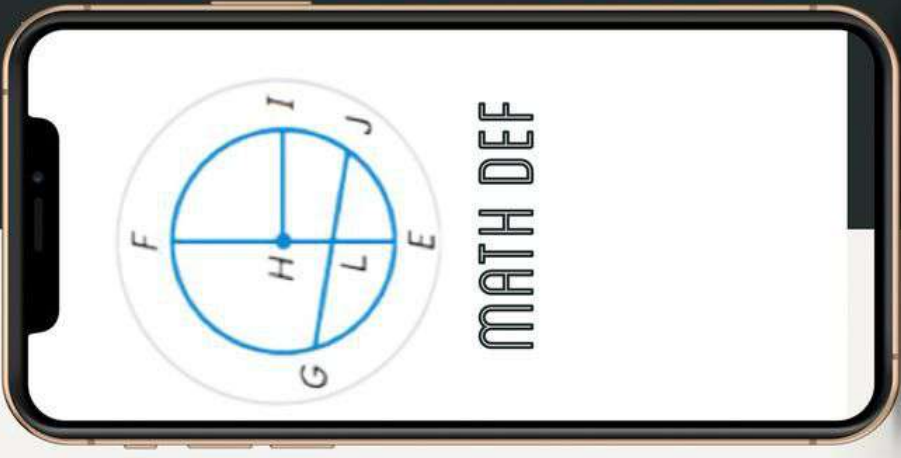
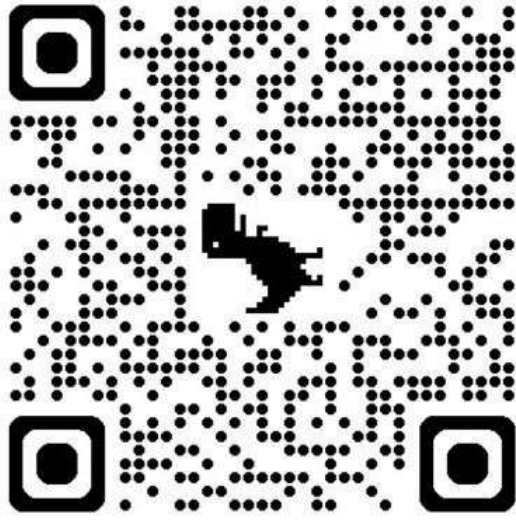
عاشر عام فصل ثالث .

Eot2 - Math .

عصام
الـدبـيـا بـدبـه

كود بقائمة التشغيل الخاصة بالفيديوهات

REVEAL



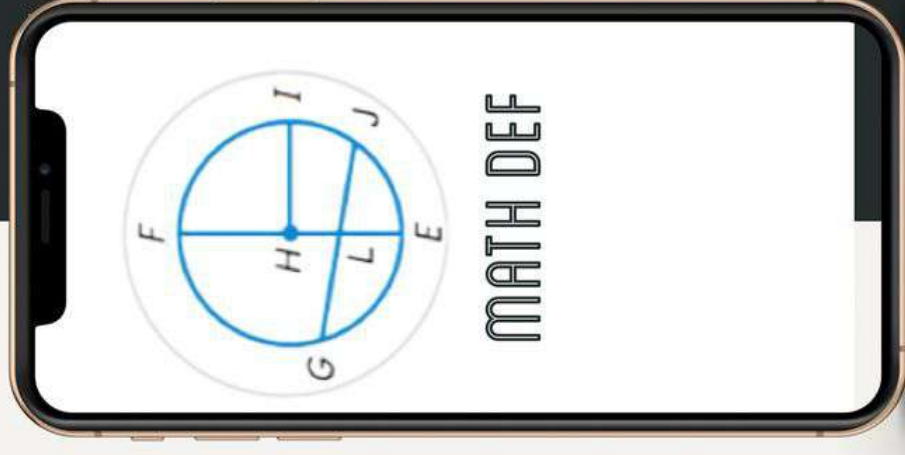
الدبابة
عصام

MCQ

60 MARKS

4 MARKS / QUESTION

عصام الدين يابه





1. Sample spaces.

MCQ.

Pages :365, 469 368, 370.

Example 4. COLLEGE Santiago lists the number of sections available for the courses he will take in his first semester at college. How many different schedules could Santiago create for this semester?

Find the number of possible outcomes for each situation.

Course	Sections Offered
Art History	6
French	5
Mathematics	9
Art	4
English	6

S12. A cafeteria meal at Angela's work includes one choice from each category. find the number of possible outcomes.

Cafeteria Meal	Number of Choices
Main dish	3
Side dish	4
Vegetable	2
Salad	2
Salad Dressing	3
Dessert	2
Drink	3

2. A numbered spinner with six equal parts is spun once.

- What is the sample space of the experiment?
- What is the sample space for the event of landing on a prime number?

11. A video game lets you decorate a bedroom using one choice from each category.

find the number of possible outcomes.

Bedroom Décor	Number of Choices
Paint color	8
Comforter set	6
Sheet set	8
Throw rug	5
Lamp	3
Wall hanging	5

Example 1 Define a Sample Space.

A fair die is tossed once.

a. What is the sample space of the experiment?

b. What is the sample space for the event of rolling a prime number? Write the outcomes to complete the sample space.

- Define the sample space, S , of a fair coin being tossed once.

3. DODECAGON A regular, 12-sided dodecagon is rolled once.

- What is the sample space of the experiment?
- What is the sample space for the event of rolling an even number?

4. SPINNERS A lettered spinner with five equal parts is spun once.

- What is the sample space of the experiment?
- What is the sample space for landing on a vowel?



Use the spinner

7. Let A be the event that the spinner lands on a vowel. Let B be the event that it lands on the letter J. What are the possible outcomes of each event?

a. $A = \{ \quad \}$

b. $B = \{ \quad \}$

c. $A \cup B = \{ \quad \}$



9. A random number generator is used to generate one integer between 1 and 20. Let C be the event of generating a multiple of 5, and let D be the event of generating a number less than 12.

What are the possible outcomes of each event?

a. $C = \{ \quad \}$

b. $D = \{ \quad \}$

c. $C \cup D = \{ \quad \}$

8. Let X be the event that the spinner lands on a consonant. Let Y be the event that it lands on the letter K. What are the possible outcomes of each event?

a. $X = \{ \quad \}$

b. $Y = \{ \quad \}$

c. $X \cup Y = \{ \quad \}$

10. A random number generator is used to generate one integer between 1 and 100. Let A be the event of generating a multiple of 10, and let B be the event of generating a factor of 30.

What are the possible outcomes of each event

a. $A = \{ \quad \}$

b. $B = \{ \quad \}$

c. $A \cup B = \{ \quad \}$



3. Two-way frequency tables.

MCQ.

Pages :420, 428.

4. Example 3 Conditional Probability with Two-Way Frequency Tables.

	Not Original Content	Original Content	Totals
Video	27.3%	18.2%	45.5%
Photo	49.1%	5.5%	54.5%
Totals	76.4%	23.6%	100%

Abu posts a question to an online forum about the originality of posts to the site. Of the 55 respondents who have posted viral memes, 27 photos and 15 videos were not original content, while 3 photos and 10 videos were original content.

Part A Construct a relative frequency table of the data. Round each percent to the nearest tenth.

Part B Find the probability that a viral meme on the forum is not original content given that it is a photo.
The probability that a meme is not original content given that it is a photo is the conditional probability

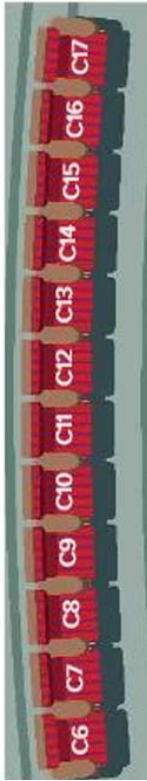
15. MULTIPLE CHOICE

The table shows the results of a survey asking whether the respondent preferred to use the Internet on a phone or laptop. What is the probability that a participant is 30+ years old given that they prefer a laptop to use the Internet?

	Phone	Laptop	Total
12–29 years old	85	21	106
30+ years old	124	87	211
Total	209	108	317

- A. 27.4%
B. 41.2%
C. 59.3%
D. 80.6%



4. Permutations and combinations.		MCQ.	Pages :393.																
1. CHEERLEADING The cheerleading squad is made up of 12 girls. A captain and a co-captain are selected at random. What is the probability that Chantel and Clover are chosen as leaders?		2. BOOKS You have a textbook for each of the following subjects: Spanish, English, Chemistry, Geometry, History, and Psychology. If you choose 4 of these books at random to arrange on a shelf, what is the probability that: <ul style="list-style-type: none">the Geometry textbook will be first from the left andthe Chemistry textbook will be second from the left?																	
3. RAFFLE Alfonso and Cordell each bought one raffle ticket at the state fair. If 50 tickets were randomly sold, what is the probability that: <ul style="list-style-type: none">Alfonso got ticket 14 andCordell got ticket 23?		4. CONCERT Nia and Ciro are going to a concert with their high school's key club. If they choose a seat in the row below at random, what is the probability that Ciro will be in seat C11 and Nia will be in C12?																	
5. PHONE NUMBERS What is the probability that a 7-digit telephone number generated using the digits 2, 3, 2, 5, 2, 7, and 3 is the number 222-3357?		6. IDENTIFICATION A store randomly assigns their employees work identification numbers to track productivity. Each number consists of 5 digits ranging from 1–9. If the digits cannot repeat, find the probability that a randomly generated number is 25938.																	
7. STUDENT COUNCIL The table shows the finalists for class president. The order in which they will give their speeches will be chosen randomly.																			
a. What is the probability that Denny, Kelli, and Chaminade are the first 3 speakers, in any order?																			
b. What is the probability that Denny is first, Kelli is second, and Chaminade is third?																			
<table><tr><th colspan="2">Class President Finalists</th></tr><tr><td>Alan Shepherd</td><td></td></tr><tr><td>Chaminade Hudson</td><td></td></tr><tr><td>Denny Murano</td><td></td></tr><tr><td>Kelli Baker</td><td></td></tr><tr><td>Tanika Johnson</td><td></td></tr><tr><td>Jerome Murdock</td><td></td></tr><tr><td>Marlene Lindeman</td><td></td></tr></table>				Class President Finalists		Alan Shepherd		Chaminade Hudson		Denny Murano		Kelli Baker		Tanika Johnson		Jerome Murdock		Marlene Lindeman	
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Jerome Murdock																			
Marlene Lindeman																			



5. Probability and multiplication rule.

MCQ.

Pages :401.

1. CLOTHING

Omari has two pairs of red socks and two pairs of white socks in a drawer. He has a drawer with 2 red T-shirts and 1 white T-shirt. If he randomly chooses a pair of socks from the sock drawer and a T-shirt from the T-shirt drawer, what is the probability that he gets a pair of red socks and a white T-shirt?

2. Phyllis drops a penny in a pond, and then she drops a nickel in the pond.

What is the probability that both coins land with tails showing?

3. A die is rolled and a penny is flipped.

Find the probability of rolling a two and landing on a tail.

4. A bag contains 3 red marbles, 2 green marbles, and 4 blue marbles.

A marble is drawn randomly from the bag and replaced before a second marble is chosen.
Find the probability that both marbles are blue.

5. The forecast predicts a 40% chance of rain on Tuesday and a 60% chance on Wednesday. If these probabilities are independent, what is the chance that it will rain on both days?

Determine whether the events are independent or dependent. Explain your reasoning.

6. You roll an even number on a fair die, and then spin a spinner numbered 1 through 5 and it lands on an odd number.

7. An ace is drawn from a standard deck of 52 cards and is **not replaced**. Then, a second ace is drawn.

8. In a bag of 3 green and 4 blue marbles, a blue marble is drawn and **not replaced**. Then, a second blue marble is drawn.

9. You roll two fair dice and roll a 5 on each.

**6. Probability and the addition rule.****MCQ.**

Pages :409.

Determine whether the events are mutually exclusive or not mutually exclusive. Explain your reasoning .

1. A die is rolled while a game is being played.

The result of the next roll is a 6 or an even number.

2. SALES

A street vendor is selling T-shirts outside of a concert arena.

The colors and sizes of the available T-shirts are shown in the table.

The vendor selects a T-shirt that is blue or large.

	Red	Blue	White
Small	1	2	2
Medium	3	2	4
Large	4	5	6
Extra Large	7	6	3

3. AWARDS

The student of the month gets to choose one award from:

- 9 gift certificates to area restaurants
- 8 T-shirts
- 6 water bottles
- 5 gift cards to the mall

What is the probability that the student of the month chooses a T-shirt or a water bottle?

4. SALES PROMOTIONS

At a grand opening event, a store allows customers to choose an envelope from a bag.

- 10 envelopes contain store coupons
- 8 envelopes contain gift cards
- 2 envelopes contain \$100

What is the probability that a customer selects an envelope with a gift card or an envelope with \$100?

5. TRAFFIC

If the chance of making a green light at a certain intersection is 35%,

what is the probability of arriving when the light is yellow or red?

6. STUDENTS

In a group of graduate students:

- 4 out of the 5 **females** are international students
- 2 out of the 3 **men** are international students

What is the probability of selecting a graduate student from this group that is a male or an international student?



7. Solving systems of equations.

MCQ.

Pages :539.

Use elimination to solve each system of equations.

9.

$$\begin{aligned} 3x - 2y &= 4 \\ 5x + 3y &= -25 \end{aligned}$$

10.

$$\begin{aligned} 5x + 2y &= 12 \\ -6x - 2y &= -14 \end{aligned}$$

11.

$$\begin{aligned} 7x + 2y &= -1 \\ 21x + 6y &= -9 \end{aligned}$$

12.

$$\begin{aligned} 3x - 5y &= -9 \\ -7x + 3y &= 8 \end{aligned}$$

13.

$$\begin{aligned} x - 3y &= -12 \\ 2x + y &= 11 \end{aligned}$$

14.

$$\begin{aligned} 6w - 8z &= 16 \\ 3w - 4z &= 8 \end{aligned}$$



8. Solving systems of equations.

MCQ.

Pages :539.

Write an equation in point-slope form for the line that satisfies each set of conditions.

17. slope of -5 , passes through $(-3, -8)$

18. slope of $\frac{4}{5}$, passes through $(10, -3)$

19. slope of $-\frac{2}{3}$, passes through $(6, -8)$

20. slope of 0 , passes through $(0, -10)$



9. Equations of linear functions .

MCQ.

Pages :526.

Write an equation in point-slope form for a line that passes through each set of points.

21. $(2, -3)$ and $(1, 5)$

22. $(3, 5)$ and $(-6, -4)$

23. $(1, -2)$ and $(-3, 1)$

24. $(-2, -4)$ and $(1, 8)$



10. Solving system of equations graphically

MCQ.

Pages :529, 533.

Determine the number of solutions for each system. Then state whether the system of equations is consistent or inconsistent and whether it is independent or dependent.

1.

$$y = 3x$$

$$y = -3x + 2$$

2.

$$y = x - 5$$

$$-2x + 2y = -10$$

3.

$$2x - 5y = 10$$

$$3x + y = 15$$

4.

$$x + 2y = 5$$

$$3x - 15 = -6y$$

5.

$$x + 2y = 5$$

$$3x - 15 = -6y$$

6.

$$3x - y = 2$$

$$x + y = 6$$



11. Solving system of equations algebraically.

MCQ.

Pages :540.

Use substitution or elimination to solve each system of equations.

1. $0.5x + 2y = 5$
 $x - 2y = -8$

2. $h - z = 3$
 $-3h + 3z = 6$

3. $-r + t = 5$
 $-2r + t = 4$

4. $3r - 2t = 1$
 $2r - 3t = 9$

5. $5g + 4k = 10$
 $-3g - 5k = 7$

6. $4m - 2p = 0$
 $-3m + 9p = 5$

7. The sum of two numbers is 12. The difference of the same two numbers is -4. Find the two numbers.

8. Twice a number minus a second number is -1. Twice the second number added to three times the first number is 9. Find the two numbers.



12. Solving system of inequalities.

MCQ.

Pages :545.

7. $y \geq -3x + 7$

$y > \frac{1}{2}x$

$y < 2$

8. $x > -3$

$y < -\frac{1}{3}x + 3$

$y > x - 1$

9. $y < -\frac{1}{2}x + 3$

$y > \frac{1}{2}x + 1$

$y < 3x + 10$

10. $y \leq 0$

$x \leq 0$

$y \geq -x - 1$

11. $y \leq 3 - x$

$y \geq 3$

$x \geq -5$

12. $x \geq -2$

$y \geq x - 2$

$x + y \leq 2$



13. Solve absolute value equations.

MCQ.

Pages :517.

1. $|8 + p| = 2p - 3$

2. $|4w - 1| = 5w + 37$

3. $4|2y - 7| + 13 = 9$

4. $-2|7 - 3y| - 6 = -14$

5. $2|4 - n| = -3n$

6. $5 - 3|2 + 2w| = -7$

7. $5|2r + 3| - 5 = 0$

8. $3 - 5|2d - 3| = 4$



14. Conditional probability .

MCQ.

Pages :415.

1. CLUBS The Spanish Club is having a potluck lunch where each student brings in a cultural dish. The 10 students randomly draw cards numbered with consecutive integers from 1 to 10. Students who draw odd numbers will bring main dishes. Students who draw even numbers will bring desserts. If Cynthia is bringing a dessert, what is the probability that she drew the number 10?

2. A card is randomly drawn from a standard deck of 52 cards. What is the probability that the card is a king of diamonds, given that the card drawn is a king?

3. GAME In a game, a spinner with the 7 colors of the rainbow is spun. Find the probability that the color spun is blue, given the color is one of the three primary colors: red, yellow, or blue.

4. Fifteen cards numbered 1–15 are placed in a hat. What is the probability that the card has a multiple of 3 on it, given that the card picked is an odd number?

5. A blue marble is selected at random from a bag of 3 red and 9 blue marbles and not replaced. What is the probability that a second marble selected will be blue?

6. A die is rolled. If the number rolled is less than 5, what is the probability that it is the number 2?

7. If two dice are rolled, what is the probability that the sum of the faces is 4, given that the first die rolled is odd?

8. A spinner numbered 1 through 12 is spun. Find the probability that the number spun is an 11 given that the number spun was an odd number.

9. If two dice are rolled, what is the probability that the sum of the faces is 8, given that the first die rolled is even?

10. PICNIC A school picnic offers students hamburgers, hot dogs, chips, and a drink. a. At the picnic, 60% of the students order a hamburger and 48% of the students order a hamburger and chips. What is the conditional probability that a student who orders a hamburger also orders chips?

b. If 50% of the students ordered chips, are the events of ordering a hamburger and ordering chips independent? Explain

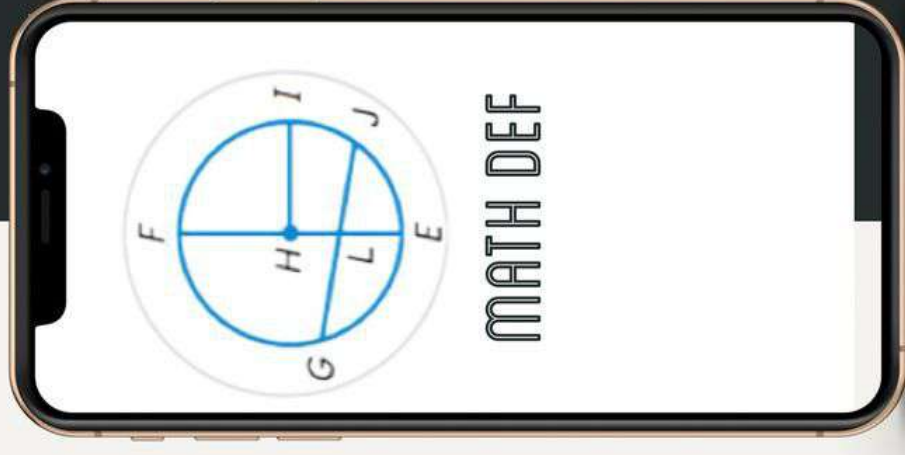
c. If 80% of the students who ordered a hot dog also ordered a drink and 35% of all the students ordered a hot dog, find the probability that a student at the picnic orders a hot dog and drink.

FRQ.

40 MARKS.

5 - 8 MARKS / QUESTION.

عصام الدين يابه





15. Probability and counting .

FRQ

Pages : 377, 378.

1. A fair die is rolled once. Let A be the event of rolling an even number, and let B be the event of rolling a number greater than 4. Find $A \cap B$.

3. Let A be the event of the spinner landing on 4 or 10, and let B be the event of the spinner landing on a section with a number divisible by 4. What are the possible outcomes of each event?



- $A = \{ \}$
- $B = \{ \}$
- $A \cap B = \{ \}$

5. A card is selected from a standard deck of cards. What is the probability that the card is a diamond and is a seven?

4. Let P be the event of the spinner landing on a section with a prime number, and let Q be the event of the spinner landing on a section with a number that is a multiple of 3. What are the possible outcomes of each event?

- $P = \{ \}$
- $Q = \{ \}$
- $P \cap Q = \{ \}$

6. A card is selected from a standard deck of cards. What is the probability that the card is a diamond and is a seven?

Determine the probability of each event. Round to the nearest hundredth, if necessary.

11. What is the probability of drawing a card from a standard deck and not getting a spade?

12. What is the probability of flipping a coin and not landing on tails?

13. Carmela purchased 10 raffle tickets. If 250 were sold, what is the probability that one of Carmela's tickets will not be drawn?

14. What is the probability of spinning a spinner numbered 1 to 6 and not landing on 5?



16. Probability and the addition rule .

FRQ.

Pages : 410.

Suppose you pull a card from a standard 52-card deck. Find the probability of each event.

7. The card is a 4.

8. The card is red.

9. The card is a face card.

10. The card is not a face card

11. P (queen or heart)

12. P (jack or spade)

13. P(five or prime number)

14. P (ace or black)

15. A drawing will take place where one ticket is to be drawn from a set of 80 tickets numbered 1 to 80. If a ticket is drawn at random, what is the probability that the number drawn is a multiple of 4 or a factor of 12?

17. BOWLING Cindy's bowling records indicate that for any frame, the probability that she will bowl a strike is 30%, a spare 45%, and neither 25%. What is the probability that she will bowl either a spare or a strike for any given frame?

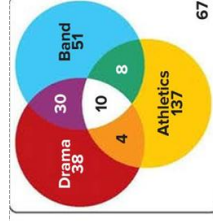
16. SCHOOL The Venn diagram shows the extracurricular activities enjoyed by the senior class at Valley View High School.

a. How many students are in the senior class?

b. How many students participate in athletics?

c. If a student is randomly chosen, what is the probability that the student participates in athletics or drama?

d. If a student is randomly chosen, what is the probability that the student participates in only drama and band?



18. SPORTS CARDS Dario owns 145 baseball cards, 102 football cards, and 48 basketball cards. What is the probability that he randomly selects a baseball or a football card?



17. Solving linear equations and inequalities .

FRQ.

Pages : 507, 508.

Solve each equation. Check your solution .

1. $6x - 5 = 7 - 9x$	2. $-1.6r + 5 = -7.8$	3. $\frac{3}{4} - \frac{1}{2}n = \frac{5}{8}$
4. $\frac{5}{6}c + \frac{3}{4} = \frac{11}{12}$	5. $2.2n + 0.8n + 5 = 4n$	6. $6y - 5 = -3(2y + 1)$
7. $-6(2x + 4) + \frac{1}{2}(8 + 3x) = -20$	8. $7(-1 + 4x) - 12x = 5$	9. $-4(10 + 3x) - (x + 8) = -9$
25. $\frac{z}{-4} \geq 2$	26. $3a + 7 \leq 16$	27. $20 - 3n > 7n$
	28. $7f - 9 > 3f - 1$	29. $0.7m + 0.3m \geq 2m - 4$
		30. $4(5x + 7) \leq 13$

Solve each inequality. Graph the solution set on a number line.



18. Equations of linear functions .

FRQ.

Pages : 525.

Write each equation in standard form. Identify A, B, and C.

1. $-7x - 5y = 35$

2. $8x + 3y + 6 = 0$

3. $10y - 3x + 6 = 11$

4. $\frac{2}{3}y - \frac{3}{4}x + \frac{1}{6} = 0$

5. $\frac{4}{5}y + \frac{1}{8}x = 4$

6. $-0.08x = 1.24y - 3.12$

7. $6x + 3y = 12$

8. $14x - 7y = 21$

9. $\frac{2}{3}x + \frac{1}{6}y = 2$

10. $5x + 10y = 20$

11. $6x + 9y = 15$

12. $\frac{1}{5}x + \frac{1}{2}y = 4$

Write each equation in slope-intercept form. Identify the slope m and the y-intercept b



19. solving Systems of Equations Algebraically .

FRQ.

Pages : 539.

Use substitution to solve each system of equations.

1. $2x - y = 9$
 $x + 3y = -6$

2. $2x - y = 7$
 $6x - 3y = 14$

3. $2x + y = 5$
 $3x - 3y = 3$

4. $3x + y = 7$
 $4x + 2y = 16$

5. $4x - y = 6$
 $2x - \frac{y}{2} = 4$

6. $2x + y = 8$
 $3x + \frac{3}{2}y = 12$