

Towheed Iranian School

INTERNATIONAL SECTION



پیک بهاری

NAME: _____

GRADE 8

Nowruz 1394

باسمه تعالی

والله اعلم
بما تصنعون
مجمع آموزش عالی خوارزمی
مجمع آموزش عالی خوارزمی

ولی کرامی

سلام علیکم

فرارسیدن عید سعید نوروز، سرآغاز فصل زیبای بهار را تبریک عرض می‌کنم و از خداوند متعال سالی سرشار از برکات و نعمات الهی و نشاط و سهرمندی برایتان آرزو مندم. کاکلنان این مجمع آموزشی مفتخرند که در خدمت نوآموزان و دانش‌آموزان ایرانی و سایر ملل بستند و برای توسعه ارائه خدمات آموزشی و پرورشی نیازمند حمایت های ایرانیان عزیز مقتیم امارات می باشند. از اینکه این مجمع آموزشی را به عنوان خاندی دوم فرزند خود انتخاب نمودید بر خود می‌بالیم. از خداوند متعال سرافرازی نام ایران و ایرانی را در تمامی عرصه های علمی، فرهنگی و... خواستاریم.



دانش‌آموز عزیز

سلام

فرارسیدن عید سعید نوروز را به شما و همه بھمکلاسی های عزیزتان تبریک می‌گویم و از خداوند مهربان سالی همراه با تندرستی و موفقیت در امور تحصیلی و تربیتی برایتان مسلت می‌نمایم.

امیدوارم در این مجمع آموزشی روز به روز شاهد کسب افتخارات برای ایران و ایرانیان عزیز باشیم.

علی سهرابی

مدیر مجمع آموزشی نمونه و بین الملل توحید پسران دبی

اللهم صل على فاطمة الزهراء

سال نو مبارک ...





مجتمع آموزشی نمونه و بین الملل توحید دبی
Towheed Iranian School
International Section

NOWRUZ HOLIDAY STUDY PLAN

Grade Eight

Subject	Lessons/ pages/ notes/activities
English	Complete the attached work sheets.
Math Pre- Algebra Geometry	Algebra Benchmark Test in the third week of April on all the topics done till now. The worksheet given ,the quizzes done and practice tests in the textbook done till now will help you to practice for the benchmark. Complete the attached work sheets.
Science	Biology: Quiz will be taken from chapter 7 module D (human body) For Girls : Answering to chapter review of Environmental science book(Mod E): chapter 4&5 - Microorganisms book(Mod A): chapter 1
Farsi	Complete the attached work sheets.
پیام های آسمان قرآن	Complete the attached work sheets.
Arabic	ویژه دانش آموزان دختر: ۱ - برای هر یک از ضمائر جدا و متصل دو مثال قرآنی پیدا کنید ۲ - برای هر فعل مضارع یک مثال از کتاب همراه با معنی پیدا کنید ویژه دانش آموزان پسر: ۱- انتخاب و نوشتن ۲۰۰ کلمه مشکل (عربی) همراه با ترجمه فارسی از صفحات اعلام شده ۲- جمله سازی : انتخاب ۲۰ کلمه از بین کلمات مشکل و جمله سازی با آنها ۳- تعبیر : یکی از خاطرات خودتان در تعطیلات نوروز ۹۴ را به زبان عربی حداکثر در ۸ الی ۱۰ سطر بنویسید. صفحات درسی : از صفحه ۱ الی ۶۱

باسمه تعالی

نوروز نامه هشتم

آموزش قرآن و پیام های آسمان

دانش آموزان خوبم

امیدوارم ایام تعطیلات نوروزی امسال که همراه شده با نام متبرک حضرت فاطمه زهرا(س) به کامتان باشد. کارهای کوچولویی برای این ایام در نظر گرفته ایم امیدواریم مورد پسندتان باشد.

الف: قرآن

آیاتی از سوره عنکبوت در درس ششم کتاب درسی شما آمده است بنابراین کارهای زیر را انجام دهید

- ۱- یادگیری روان خوانی این آیات
- ۲- ده عبارت کوتاه با معنای فارسی از سوره عنکبوت انتخاب کنید و بنویسید.
- ۳- آیه ۸ اشاره به احترام به پدر و مادر دارد ده مورد از راه های احترام به پدر و مادر را بنویسید.

ب) پیام های آسمانی

- یادگیری قرائت صحیح یک نماز دو رکعتی.
- پایان هر درس مناجات با خدا با نام (الهی) آمده است شما نیز بر اساس خواسته های قلبی خود با خدا راز و نیاز کنید و یک مناجات زیبا بنویسید.
- پیشنهاد صفحه ۱۰۱ را تهیه کنید و خلاصه اش را بنویسید. چنانچه موفق به تهیه کتاب نشدید به دلخواه یک داستان آموزنده دیگر بنویسید.

با تشکر

باسمه تعالی

نوروز نامه هشتم (ادبیات فارسی)

دانش آموزان خوبم سلام

امیدوارم ایام تعطیلات نوروزی امسال که همراه شده با نام متبرک حضرت فاطمه زهرا (س) به کامتان باشد. کارهای کوچولویی برای این ایام در نظر گرفته ایم امیدواریم مورد پسندتان باشد.

الف: فارسی

فصل ششم کتاب فارسی درباره ادبیات بومی است. دو درس آزاد دارد. درس چهاردهم صفحه ۱۰۴ و درس پانزدهم صفحه ۱۰۷.

شما دانش آموز عزیز باید مانند سایر درس های کتاب این دو درس را بر اساس ادبیات بومی زادگاه خودت کامل کنی.

ادبیات بومی شامل معرفی مکان های خاص و دیدنی شامل کوه ، دشت ، دریا ، آثار تاریخی و اشخاصی که به هر دلیلی شناخته شده و برجسته هستند (شهدا ، دانشمندان ، شاعران ، نویسندگان و ...) می شود.

بین دو تا پنج نمره از نمره مستمر شما مربوط به این کار خواهد بود. دقت در انتخاب موضوع ، زیبا نویسی ، پاکیزه نویسی و کامل بودن همه قسمت های درس مورد تاکید است.

ب) آیین نگارش

- درباره رسم و رسوم ما ایرانیان در نوروز از اطرافیان کسب اطلاع کن سپس بر اساس اصول نویسندگی که تا کنون در کتاب مهارت های نوشتاری یاد گرفته ای انشای زیبایی بنویس.

سعی کنید به رسم و رسومی اشاره کنید که خاص محل تولد و زندگی شماست.

- مشخصات یکی از کتاب هایی را که در ایام نوروز خوانده ی بنویس.

ج) املا

از یکی از اعضای خانواده بخواهید در طول ایام نوروزی دو املا فارسی از شما بگیرند

املا اول از شش درس اول

املا دوم از درس هفتم تا درس سیزدهم

املاها باید در دفتر نوشته شود و نمره و امضا داشته باشد.

با تشکر



Name _____

Date _____

Paragraph Correction 7

Directions: Read the passage below. Then answer questions about errors in the passage.

My 1) brother in law is an actuary for an insurance company. He works with statistics every day. He is extremely organized. He takes the same items to work every 2) morning a lunch bag, a thermos 3) with coffee, and his briefcase. His lunch bag always contains the same things: 4) an apple raspberry yogurt and a tuna salad sandwich. He always 5) carrys the same items in his briefcase: his insurance documents, an extra tie, and an extra pair of socks. He takes the same route to work every day: down First Avenue to the Interstate, Exit 246 to Dodge Rd., and right on Dodge Rd. to the insurance company. 6) At work, he follows the same routine every day. After work, he always forgets 7) where he park his car. 8) I guess it helps to be very organized when you are so forgetful!

- 1)
A. brother-in-law
B. brother-in law
C. brother-inlaw
D. brother in-law

- 2)
A. morning; a
B. morning: a
C. morning, a
D. morning. A

- 3)
A. and
B. of
C. full of
D. Either B or C would be correct.
E. Correct as is

- 4)
A. an apple, raspberry yogurt, and
B. an apple; raspberry yogurt; and
C. an apple - raspberry yogurt - and
D. an apple, raspberry yogurt and
E. Both A and B are correct.
F. Both A and D are correct.

- 5)
A. carres
B. carryes
C. carries
D. caryes
E. Correct as is

- 6)
A. In work
B. In a work
C. At the work
D. Correct as is

- 7)
A. where he did parked
B. where did he park
C. where he parked
D. where did the car park
E. Correct as is

- 8)
A. I, guess it
B. I guess, it
C. I could guess it
D. Correct as is.

Name _____

Date _____

Paragraph Correction 8

Directions: Read the passage below. Then answer questions about errors in the passage.

1) Years ago! Kelin was my student. I taught Western Civilization to her during her freshman year. Since I was an 2) internacional teaching 3) assistant I was aware that I spoke with an accent. I was also aware that my students might have ideas that were very different from mine. Kelin often snickered when I said something she 4) didnt understand. She often asked questions that put me on the spot. 5) All though I was sometimes hurt by her comments, I was always polite to Kelin. Several days ago, I saw Kelin downtown. She approached me and 6) said I learned so much in your class. You were my favorite teacher at the 7) university” I was 8) touch and amaze.

1)

- A. Years ago,
- B. Years ago:
- C. Years ago;
- D. Years ago –

2)

- A. internacionale
- B. internationale
- C. internasional
- D. international
- E. Correct as is

3)

- A. assistant. I
- B. assistant, I
- C. assistant; I
- D. assistant: I
- E. Correct as is

4)

- A. did`nt understand.
- B. did not understand.
- C. didn`t understand.
- D. Both B and C are correct
- E. Correct as is

5)

- A. However
- B. Although
- C. Even though
- D. Both B and C are correct
- E. Both A and C are correct

6)

- A. said, “I
- B. said “I
- C. said- “I
- D. said “I,

7)

- A. university. I
- B. university.” I
- C. university, I
- D. university”. I

8)

- A. touch and amazed.
- B. touched and amaze.
- C. touched and amazed.
- D. touching and amazing.
- E. Correct as is

Name _____

Date _____

Paragraph Correction 9

Directions: Read the passage below. Then answer questions about errors in the passage.

It was the day of the big 1) game: and 2) everyone is taking treats to school. My daughter wanted to take a low-sodium treat for students in her Life Skills class. So, we decided to make banana bread. Although my 3) receipe contains nuts, we decided to leave them out. Some students in my daughter's class are allergic to nuts, and she wanted everybody to be able to 4) injoy her treat. We made three kinds of banana 5) bread one with nuts, one with raisins, and one that was plain. The banana bread 6) were a big hit! Someone brought apple butter, so the 7) students eaten banana bread with apple butter. My daughter was happy that weekend for two reasons: the banana bread was good, and her 8) team school won the game!

- 1)
A. game, and
B. game! and
C. game; and
D. game. and
E. Correct as is

- 2)
A. everyone are
B. everyone was
C. everyone were
D. everyone have
E. Correct as is

- 3)
A. receipt
B. reciepe
C. receipt
D. recipe
E. Correct as is

- 4)
A. enjoi
B. ingoy
C. enjoy
D. engeoy
E. Correct as is

- 5)
A. bread: one
B. bread, one
C. bread; one
D. bread. One

- 6)
A. is
B. was
C. will be
D. had been
E. Correct as is

- 7)
A. students eating
B. students eats
C. students eat
D. students ate
E. students were eating

- 8)
A. team of the school
B. teams school
C. school team
D. schools team
E. Correct as is

Intermediate Paragraph Correction 10

Directions: Read the passage below. Then answer questions about errors in the passage.

1) My sister-in-law Darlene is running for office 2) in our county. She wants a seat on the County Board of Supervisors. There will be two seats open, and I think she has a good 3) chance of being elected. The board regulates 4) salarys of county employees, makes some zoning decisions, and cooperates with other local governments. It is considered a part-time job, but the 5) supervisors always busy. People call them every time 6) theres a problem. I didn't really know why she wanted the job, so I asked her. 7) "Darlene, I said, "Why do you want this job? 8) It a lot of work!"

"I want to make a positive contribution to our county," she replied.

- 1)
 A. law, Darlene is
 B. law, Darlene, is
 C. law. Darlene, is
 D. law: Darlene, is
 E. Correct as is

- 2)
 A. at our county.
 B. with our county.
 C. about our county.
 D. around our county.
 E. Correct as is

- 3)
 A. chance
 B. schance
 C. shance
 D. chence
 E. Correct as is

- 4)
 A. salareys
 B. calaries
 C. salares
 D. salaries
 E. Correct as is

- 5)
 A. supervisor's always busy.
 B. supervisor is always busy.
 C. supervisors are always busy.
 D. supervisors were always busy.
 E. Correct as is

- 6)
 A. they're
 B. theres'
 C. there's
 D. theirs
 E. their's
 F. Correct as is

- 7)
 A. "Darlene,"
 B. "Darlene"
 C. "Darlene",
 D. "Darlene?"
 E. Correct as is

- 8)
 A. It's
 B. Its
 C. It is
 D. Both B and C are correct
 E. Both A and C are correct

Name _____

Date _____

Paragraph Correction 11

Directions: Read the passage below. Then answer questions about errors in the passage.

Suraj is the IT manager in a small company. He manages all the computers and 1) sell phones in the company. He also gives computer training to the workers every time 2) they're is a large update. People 3) often call Suraj about their computer problems. He always has a long list of problems he needs 4) troubleshoot. Today he is going to replace a keyboard which no longer works 5) write. Then he is going to repair a problem with the company's wireless connection. Suraj actually needs 6) a assistant to help with his work, but the company can't afford to 7) higher won. 8) Almost none work gets done when the computers aren't working work properly. Suraj is mindful of the importance of his job.

1)

- A. cel
- B. cell
- C. sale
- D. seal
- E. Correct as is

2)

- A. theyre
- B. their
- C. there
- D. they are
- E. Both C and D are correct
- F. Correct as is

3)

- A. call often Suraj
- B. often Suraj call
- C. are often calling Suraj
- D. Correct as is

4)

- A. trouble shooted.
- B. two troubleshoot.
- C. too troubleshoot.
- D. to troubleshoot.

5)

- A. rite.
- B. right.
- C. wright.
- D. correctly.
- E. Both A and B
- F. Both B and D

6)

- A. an assistant
- B. the assistant
- C. this assistant
- D. Correct as is

7)

- A. hire won.
- B. higher one.
- C. high one.
- D. hire one.
- E. Correct as is

8)

- A. Almost any
- B. Very little
- C. Very small
- D. Correct as is

Name _____

Date _____

Paragraph Correction 12

Directions: Read the passage below. Then answer questions about errors in the passage.

1) Me and my wife are planning to go to our children's school conferences later this week. We have a son and a daughter. 2) our sun is in fifth grade, and our daughter is in 3) three grade. We have never been to a school conference in 4) united states before. We visited the elementary school when 5) we register our children. We also visited the school during an Open House. At this conference, 6) we will be answering to the 7) teachers, because we are both a little nervous about holding a conversation in English. Our friends have told us that the teachers will show us our children's work. 8) We hoping we will not have to talk much. We have compiled a list of questions so we will be prepared.

- 1)
A. Me, my wife
B. Me with my wife
C. My wife and I
D. I and my wife
E. My wife and me
F. Correct as is

- 2)
A. our son are
B. Our son is
C. Our son am
D. Our son be
E. Our son was
F. Our son were

- 3)
A. third class.
B. three grades.
C. third grade.
D. third grades.
E. the grade third.

- 4)
A. the US
B. the USA
C. the United States of America
D. the United States
E. All of the above are correct
F. Both B and C are correct

- 5)
A. we registered are children.
B. we registered our children.
C. our children done registered.
D. our children got registered.
E. our children became registered.

- 6)
A. chatting with
B. talking with
C. speaking to
D. replying to
E. A, B, and C are correct
F. Both A and B are correct

- 7)
A. teachers, rather
B. teachers, unless
C. teachers, so
D. teachers, yet
E. Correct as is

- 8)
A. We hope
B. We will hope
C. We both hoping
D. Both A and C are correct
E. Correct as is

Name _____
Date _____

Paragraph Correction 13

Directions: Read the passage below. Then answer questions about errors in the passage.

My neighbor has a catering business. When people have parties at 1) their homes, my neighbor cooks for 2) them. she is a fabulous cook. Many customers contact her before they have a party. She asks them 3) alot of questions about the upcoming event. She finds out how people will be there. 4) Then her and the customer decide on a menu. My neighbor hires servers to serve the food and to 5) weight on the people. She usually cooks the meals in her own 6) home, because sometimes people ask her 7) to preparing the food at their houses. She enjoys 8) to do the working in her catering business, and she is really good at all the parts of the job.

- 1)
A. there
B. they're
C. they are
D. Correct as is

- 2)
A. them cause she
B. them, She
C. them, but she
D. them, so she
E. them. She

- 3)
A. lot
B. a lots
C. a lot
D. lots
E. Both C and D are correct
F. Both A and C are correct

- 4)
A. Then, her and the customer
B. Then she and the customer
C. Then, she and the customer
D. Then, the customer and her

- 5)
A. wait
B. waits
C. weights
D. wate
E. Correct as is

- 6)
A. home, but
B. home but,
C. home, and,
D. home and,
E. Correct as is

- 7)
A. prepare
B. to prepare
C. for prepare
D. to do the preparing of
E. Correct as is

- 8)
A. to do work
B. working
C. about working
D. Correct as is

Paragraph Correction 14

Directions: Read the passage below. Then answer questions about errors in the passage.

Renaldo had a job at a large corporation in 1) Dallas Texas. He 2) enjoys work there, but he thought it could be run more efficiently. He pondered quitting his job, but 3) he had worries that he might not be able to find another one easily. One day he was reading the classified 4) adds in the newspaper, and he saw his dream job. He applied for the 5) job, although he was hired. He moved to the job which was in a 6) company more small. He almost immediately regretted his decision to change jobs. Although the company was smaller, it was run just 7) as slowly as his previous company. He called his former boss and asked for his old job back. Now he is back in his old office at his old company, and he realizes that every job has 8) it's advantages and disadvantages.

- | | |
|---------------------------------|-----------------------------|
| 1) | 5) |
| A. Dallas Texas. | A. job, but |
| B. Dallas – Texas. | B. job, so |
| C. Dallas, Texas. | C. job, and |
| D. Correct as is | D. job, for |
| | E. Correct as is |
| 2) | 6) |
| A. enjoys to work | A. smaller company. |
| B. enjoys working | B. more small company. |
| C. enjoyed working | C. smallest company. |
| D. enjoy worked | D. Both A and B are correct |
| E. Correct as is | E. Correct as is |
| 3) | 7) |
| A. he worried | A. as costly as |
| B. he was worried | B. as great as |
| C. he was worrying | C. as quickly as |
| D. All of the above are correct | D. as incredibly as |
| E. Both A and B are correct | E. as inefficiently as |
| F. Both A and C are correct | F. as insanely as |
| 4) | 8) |
| A. adds in | A. its |
| B. ads in | B. its' |
| C. adds on | C. it is |
| D. ads on | D. Both A and C are correct |
| E. adds at | E. Correct as is |
| F. ads at | |

Name _____

Date _____

Paragraph Correction 15

Directions: Read the passage below. Then answer questions about errors in the passage.

Marta is a 1) sophomore college. She is working on a degree in Special Education. She works as a camp 2) councilor every summer. The camp is a special camp for children with 3) physical and mental disadvantages. Marta helps the kids get exercise and 4) make better their social skills. She takes the kids swimming every afternoon in the summer. 5) They goes bowl once a week. The children really 6) like the camping out in tents. Marta 7) always have wanted work with kids with disabilities. 8) She is looking forward to a career in Special Education.

1)

- A. college sophomore
- B. sophomore in college
- C. sophomore at college
- D. Both A and B are correct
- E. Both A and C are correct
- F. Correct as is

2)

- A. counselor
- B. councelor
- C. counsilor
- D. counsior
- E. Correct as is

3)

- A. problems.
- B. sicknesses.
- C. illnesses.
- D. disabilities.
- E. diseases.
- F. damage.

4)

- A. incline
- B. prove
- C. increase
- D. improve
- E. impass
- F. install

5)

- A. They do bowling
- B. They go bowling
- C. They are going to bowl
- D. They were bowling

6)

- A. like to camp
- B. like to do camping
- C. like camping
- D. Both A and C are correct
- E. Both A and B are correct
- F. Correct as is

7)

- A. has always wanted to work
- B. have wanted always to work
- C. always has wanted to work
- D. Both A and B are correct
- E. Both B and C are correct
- F. Correct as is

8)

- A. She look forward to
- B. She looks ahead to
- C. She is looking forward at
- D. She is looking at
- E. Correct as is



TOWHEED INTERNATIONAL SCHOOL
Grade 8 MATH REINFORCEMENT

Name: _____

Grade 8()

Date: __/__/2015

Solving Equations with Variables on Each Side

Solve each equation. Check your solution.

1. $3g - 12 = 9g$

2. $14m = 18 + 12m$

3. $7c - 7 = 4c + 17$

4. $-11t = 15 - 6t$

5. $20s + 4 = 13s - 10$

6. $-2h - 16 = 3h - 6$

7. $27j - 6 = 14j + 7$

8. $-1 + 19w = 11w + 23$

9. $8 - p = -12 - 3p$

10. $9k - 26 = 6k - 8$

11. $28 - 4d = 5d - 17$

12. $2y + 7 = y$

13. $11.7 - 2x = x$

14. $3b + 4.4 = 2.6 - 6b$

15. $\frac{3}{4}y - 6 = \frac{1}{4}y + 10$

16. $2c + 7.5 = 6.2 - 3c$

17. $5d - 11 = 2d + 2$

18. $6a - 10 = 2a - 7$

19. $8n - 6 = -9n + 11$

20. $2f - 9 = 14f + 1$

Define a variable and write an equation to find each number. Then solve.

21. Twice a number is 60 more than five times the number. What is the number?

22. Four times a number is 21 more than the number. What is the number?

23. Eight less than three times a number equals the number. What is the number?

24. A number equals six less than four times a number. What is the number?

25. **TENNIS** The area of a tennis court is 2808 ft², or 8 square feet more than 3.5 times the size of the area of a racquetball court. What is the area of a racquetball court?

26. **CELLULAR PHONES** One cellular phone carrier charges \$26.50 a month plus \$0.15 a minute for local calls. Another carrier charges \$14.50 a month and \$0.25 a minute for local calls. For how many minutes is the cost of the plans the same?



TOWHEED INTERNATIONAL SCHOOL
GRADE 8 MATH NOWRUZ HOMEWORK

Name: _____ Grade 8() Date: __/__/2015

1. Write $y - 11 = \frac{1}{2}(x - 12)$ in standard form.

2. Ashanti wants to collect more than 50 food items for the local homeless shelter. If he has already collected 13, how many more items must he collect?

3. Solve $-5n + 22 \geq -73$

4. Solve $|5k + 2| > 1$

5. Evaluate $(3.2 \times 10^6)(4.6 \times 10^{-2})$.

6. Simplify $\sqrt[4]{1296}$.

7. Use substitution to solve the system of equations.

$$y = -2x$$

$$5x + 3y = 4$$

8. Use elimination to solve the system of equations.

$$x + 3y = -6$$

$$2x + 3y = -9$$

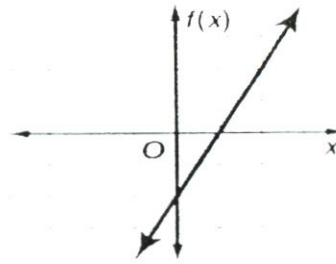
9. Simplify $\frac{(3^2)(3^3)}{(3^{-2})(3^{-3})}$.

10. Simplify $24 + 6 - \{2^3 + 7(5 - 2)\}$.

11. Find the percent of change. Original: \$28

New: \$21

12. Write an equation in function notation for the relation.



13. Write $y + 1 = 4(x - 2)$ in slope-intercept form. 14. Solve $14u + 9 - 10u > 21$.

15. Evaluate $4x(y^2 - z^2)$ if $x = 3$, $y = 5$ and $z = 4$. 16. Solve $9^{4n-3} = 3^6$.

17. Determine the best method to solve the system of equations. Then solve the system.

a) $5x - 2y = 7$
 $2x + 5y = -3$

b) $7y = 2\frac{1}{2} - 2x$
 $5x = 3y - 4$

c) $x + y = 147$
 $25x + 10y = 2415$

d) $2x + y = -8$
 $-2x + 3y = -8$

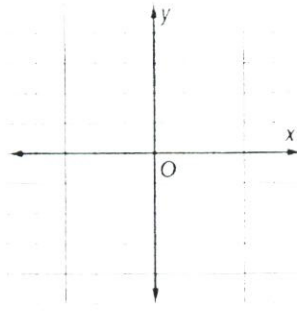


18. Write a compound inequality for the graph

19. Graph the system of equations and determine the number of solutions it has. If it has one solution, name it.

$$x + y = 4$$

$$y = x$$

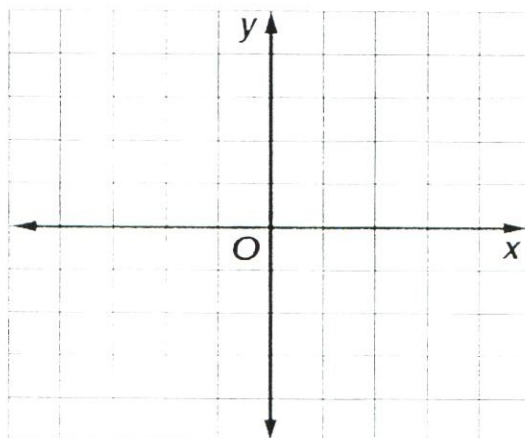


20. If a line passes through $(0, -6)$ and has a slope of -3 , what is the equation of the line?
(Lesson 4-2)

21. Solve the system of inequalities by graphing. (Lesson 6-6)

$$2x - y \geq 4$$

$$x - 2y < 4$$



22. Three times a first number minus a second number equals negative forty. The first number plus twice the second number equals negative four. (Lesson 6-5)

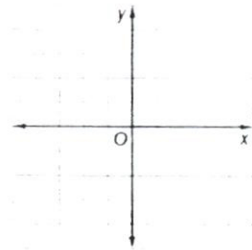
a. Define variables and formulate a system of linear equations from this situation.

b. What are the numbers?

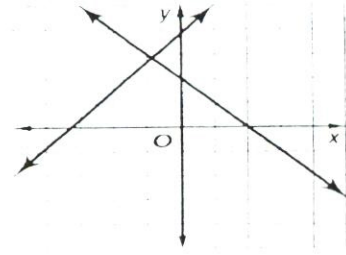
24. Graph each system of equations. Determine whether the system has *no solution*, *one solution*, or *infinitely many solutions*. If the system has one solution, name it.

$$x + 3y = 3$$

$$3y = -x + 9$$



25. Use the graph to determine how many solutions exist for the system $-4x + 3y = 12$ and $x + y = 2$.



Problemsolving

26. Three times one number added to five times a second number is 68. Three times the second number minus four times the first number is 6. What are the two numbers.

27. The difference of two numbers is 5. Five times the lesser number minus the greater number is 9. What are the two numbers?

28. A trail mix that costs \$2.45 per pound is mixed with a trail mix that costs \$2.30 per pound. How much of each type of trail mix must be used to have 30 pounds of a trail mix that costs \$2.35 per pound?

29. Find the value of r so that the line through $(2, -3)$ and $(-4, r)$ has a slope of $-\frac{1}{2}$.

30. Determine which is a linear equation.

A $\frac{1}{x} - y = 7$

C $3 = xy$

B $x^2 - 4 = y$

D $x - y = 4$

31. Write the slope-intercept form of an equation of the line that passes through $(0, -4)$ and is parallel to the graph of $4x - y = 7$.

32. Solve $|3f + 2| \leq 7$. Then graph the solution set.



33. Solve $-5 \leq 2a - 1 < 9$. Then graph the solution set.)



34. Simplify a) $(n^5)(n^2)(r^3)(r^4)$.

b) $(3w^2r)^2(-2w^5r^2)^3$

c)
$$\frac{(z^2w^{-1})^3}{(z^3w^2)^2}$$

d)
$$\frac{m^6n^3}{m^2n^6}$$

35. Solve $2^{3x+10} = 128$.

36. Express 0.000702 in scientific notation.

36. Evaluate $\frac{6.08 \times 10^7}{3.8 \times 10^{-2}}$.

37. Evaluate each product. Express the results in both scientific notation and standard form.

a. $(4.2 \times 10^9)(1.6 \times 10^{-5})$

b. $(7.8 \times 10^{-3})(4 \times 10^{-4})$