



Towheed Iranian School

FirstTerm, Final Exams, 2015-2016

Mark

50

Subject: Mathematics

Name: _____

Grade:7, Section: A , D

Date: / /2015

Exam time: 80 mins

1) Translate each phrase into algebraic expressions

(2 marks)

a) Six times a number minus nine _____

b) Three times the sum of four and a number _____

c) Some number added to eighty six _____

d) the product of sixty nine and a number _____

2)Simplify each expression

(4 marks)

a) $(15 + n) + 6$

b) $8 (4m) + 11$

c) $12 (x + 4)$

d) $15 (n + 2m)$

3) Graph each ordered pair on the coordinate plane

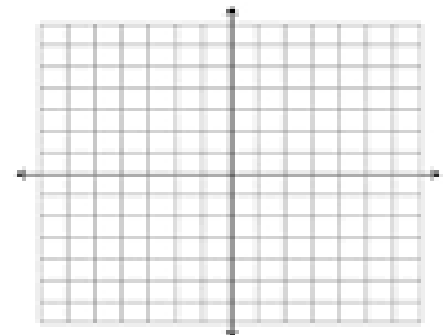
(1 mark)

A (-3 , 3)

B (-1 , 4)

C (-5, 0)

D (0 , 3)



4) Find the domain and range of the relation and identify whether it is function or not (1 mark)

$\{(7,5), (3, -2), (6,4), (-5,2)\}$.

D:

R:

6) Translate each sentence into an equation. Then find each number (3 marks)

a) Five more than 6 times a number is -7.

b) The product of 5 and the sum of a number and 2 is 50

7) Evaluate each expression if $a = -6$ and $b = 3$ and $c = 15$ (4 marks)

a. $10ab =$

b. $5c - a =$

c. $\frac{-360}{bc}$

d. $2a - (-12) =$

8) Identify the like terms in $16 + 9j - j + 1$. (1 mark)

9) Simplify the following expressions : (2 mark)

a) $6p + 10 + 8p - 15 =$

b) $4(2y + 5) - 3(3y - 6) =$

10) Evaluate $-7 - |y| + 3$ if $y = -6$ (1 mark)

11) Evaluate each expression.

(2 marks)

a) $10(15-5) - 3(9+7) =$

b) $3[4 + (7 - 1) \div 3]$

12) Solve the equations : (showing your working)

(6 marks)

a) $4x + 24 = 60$

b) $\frac{6x}{18} = 4$

c) $4 - 9c + 8c = 58$

d) $-7 - 8d = 17$

13) write each decimal as a fraction or mixed number in simplest form.

(2 marks)

1) $0.206 =$

2) $0.\overline{42} =$

14) Find each product or quotient. Write in simplest form.

(2 marks)

1) $15 \times 2\frac{1}{6}$

2) $2\frac{13}{8} \div 1\frac{1}{6}$

15) Find each sum or difference. Write in simplest form.

(3 marks)

1) $2\frac{2}{7} - 1\frac{3}{14}$

2) $\frac{6}{15} + \frac{4}{5}$

16) Problem solving : (any 4)

(8 marks)

1) In a school $\frac{2}{5}$ of students are in library and $\frac{3}{8}$ of them are in play field . What fraction of the students are in classes?

2) Maria purchased the items shown in the table.

Write an expression to show the total cost of the items. _____
Suppose the cost of the book is \$50. How much did she spend in all.

Item	price
Shirt	x
Pants	x+10
Bag	2x -5

3) To rent a house we have to pay \$500 as a deposit and \$ 120 per month .Write an **expression** to show how much shall we pay if we want to rent the house for 1 year .

4) During 6 days of May, the lowest temperature in the United States was recorded in several towns in Alaska. Find the **average** of these low temperatures:
8°F, -1°F, -5°F, 12°F, 8°F, and 14°F,

5) Four pieces of wood each $12\frac{3}{5}$ inches long are required for building a cabinet. If all four pieces are cut from one board, how long should the board be?

17) Find the distance between $A(-2, 1)$ and $B(4, -3)$.

(3 marks)

18) Find the value of x if S is between R and T , RS is $x + 3$, ST is $5x$, and RT is 57 . (2 marks)

For Exercises 18 and 19, use the figure at the right.

(2marks)

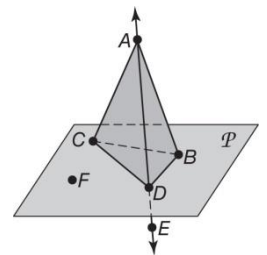
18) Which three points in the figure are collinear?

F C, D, F

G A, E, F

H B, C, D

J A, D, E



19) Name the intersection of the plane that contains points $A, B,$ and D and the plane P .

A. point D

B. triangle BCD

C. \overline{AD}

D. \overleftrightarrow{BD}

20) Find the length of \overline{XY} .

(1 mark)

F. $1\frac{11}{16}$ in.

G. $1\frac{5}{8}$ in.

H. $1\frac{9}{16}$ in.

J. $1\frac{1}{2}$ in.

