



Grade IX Summer Holidays Homework 2019

English:

Please use a two-lined English copy/register for your English Holiday Homework.

Read the following books and critically summarize the content in your own words:

1. Things Fall Apart by Chinua Achebe.
2. The Adventures of Huckleberry Finn by Mark Twain.
3. A Tale of Two Cities by Charles Dickens.
4. 1984" by George Orwell.
5. Lord of the Rings (Part :Return of King) by J.R.R Tolkein.
6. Play 'King Lear ' by William Shakespeare.
7. To Kill a Mockingbird by Harper Lee.
8. Kite Runner by Khaled Hussaini
9. David Copperfield by Charles Dickens

Read the following poems and write down the explanation in your own words. Identify the poetic devices and themes also.

1. The Solitary Reaper by William Wordsworth.
2. Birches by Robert Frost.
3. The Second Coming by W.B Yeats.
4. Sailing to Byzantium by W.B Yeats.
5. Still I Rise by Maya Angelou.

Write down your views on the following topics. [300-350 words]

1. Write a descriptive writing on 'A day I will always remember'.
2. Write a report about an accident that took place on the main road near your house.
3. Imagine that during your water sports activity you saw something very strange in the water. You are going to write an eyewitness account of your sighting.
4. Think of a place to use as a setting for a story where something strange, mysterious or frightening happens.
5. Describe your experience at a small-strength school like Maktab. What are the advantages and disadvantages of being at a school with small number of students?
6. Cricket World Cup and Pakistan's chances of winning.
7. Write a story that revolves around a necklace and a monkey.
8. Who is the most important parent in a child's life: a mother or a father?

افق کتاب میں دیئے گئے اسباق کا کام کرنا ہے۔

اسباق : سفر نامے، میں بور ہو رہا ہوں، مرد مسلمان

تصویری مشق صفحات ۱۶۳، ۲۵۵

تقسیم صفحات ۲۰۰، ۲۵۰

منتخب کردہ کہتب میں سے کوئی سی چار کہتب پڑھ کر ان پر تبصرہ لکھیں۔

حافظین [شفیق الرحمن]، مچھا چھکن [انتیاز علی تاج]، اندلس میں اجنبی [مستنصر حسین تارڈ]، معرۃ العروس [ڈبھی نذیر احمد]، پطرس کے مضامین [پطرس بخاری]، بسلامت راوی [کرنل محمد خان]

Question 1

- A baker makes loaves weighing 600,000 mg. How many loaves can be made with 9.8 kg of dough?
- A 10 cent coin worth \$0.10. How many 10 cent coins are there in \$10?
- A car travels 25 kilometers in one litre of petrol. If price of one litre of petrol is Rs 86.58, how many kilometers it can travel with petrol of amount Rs 4375. (Round your answer if needed)
- Write 84 as a product of its prime factors.

Question 2

- Solve the following

i) $2\frac{3}{4} + 5\frac{4}{5}$

ii) $21\frac{7}{3} - 11\frac{9}{8}$

iii) $25\frac{1400}{4200} \div 12\frac{15}{42000}$

- City A received 24 $\frac{1}{2}$ inches of snow, City B received 20 $\frac{2}{5}$ inches of snow, and City C received 17 $\frac{3}{10}$ inches of snow. The meteorologist lost the data for City D, however she knows the total for all 4 cities is 93 inches. How much snow did City D receive?

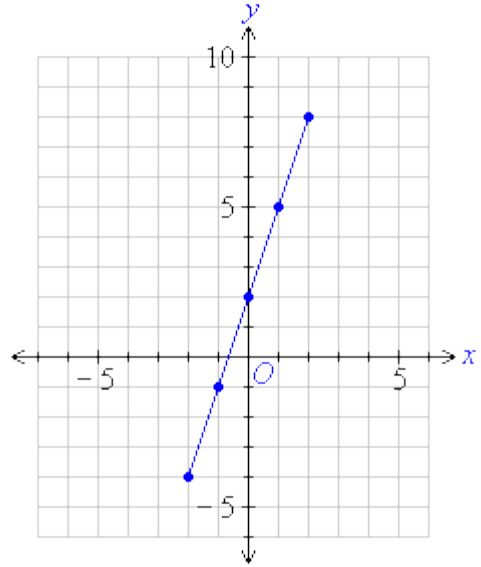
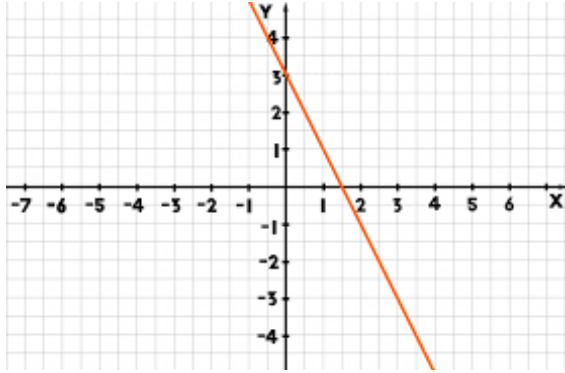
- c) A train arrives at the station with 150 passengers on board. $\frac{2}{5}$ of the passengers get off the train in Seattle, and then 35 passengers boarded the train. How many passengers are on the train when it leaves the station?
- d) A painter takes $\frac{3}{4}$ hour to paint a portrait. This is $\frac{1}{3}$ hour shorter than the time he takes to paint scenery. How long did he take to paint scenery?
- e) Which of these fractions is smaller? (Show the working properly)
(Hint: You do not need to multiply)
- i) $\frac{24365}{56342}$, $\frac{24366}{56343}$
- ii) $\frac{20001}{20002}$, $\frac{200001}{200002}$
- f) Work out $0.018 \div 0.06$.

Question 3

- a) 45% of the students in a school are girls and 20% of girls are left handed. If there are 360 students in the school, find the number of girls who are left handed.
- b) A toy is sold at a discount of 22%. Find its Sale price if marked price is Rs 2400.
- c) After giving a discount of 35% the sale price of oven is Rs 4225, what would be its marked price?
- d) There are 321,000 people who played tennis last year. This year the number has increased by 6.5%. How many people played tennis this year?
- e) Find the number which becomes 168 when increased by 12%.
- f) Which is smaller 20% of 45 or 45% of 20?

Question 3

- a) For the sequences below find the term to term rule, find the nth term and then by using the nth term find the indicated term.
- i) 4, 8, 12, 16,,,,,,,,,,,,,,,,,,,,, 17th term
- ii) -1, -7, -13, -19,,,,,,,,,,,,,,,,,,,,, 11th term
- iii) 8, 21, 34, 47,,,,,,,,,,,,,,,,,,,,, 43rd term
- b) For the following graphs, write coordinates of three points on the line and deduce the equation of the line.



a) Draw straight line represented by the following lines by finding three points on the line.

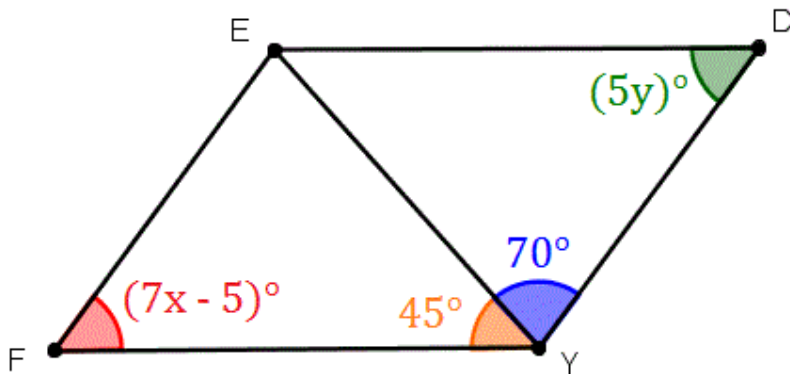
i) $y = -3x - 2$

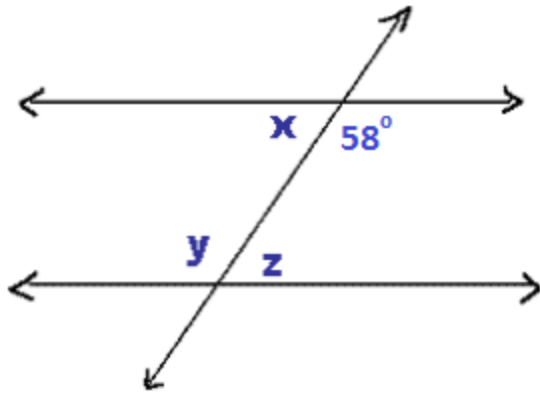
ii) $y = \frac{-3}{2}x + 4$

iii) $2x - 3y + 4 = 6$

Question 4

a) Find the unknown angles.





Question 5

- Find the volume and surface area of a cuboid whose length, width and height is 4cm, 3cm and 7cm respectively.
- The volume of a square based cuboid is 320 cm^3 . Find its surface area if height is 5cm.
- If the volume of a room is 792 m^3 and the area of the floor is 132 m^2 , find the height of the room.
- Draw the following triangle, $AB = 5\text{cm}$, $BC = 3\text{cm}$, $AC = 4\text{cm}$.

Also name the type of triangle constructed by measuring interior angles.

- For the triangle ABC, by construction draw a circle to pass through A, B and C.

Question 6

- The following data shows the number of people visited a particular store over a period of 30 days.

22	44	29	36	44	58	50	20	41	39
15	43	18	27	35	31	59	51	17	34
42	52	48	35	48	41	29	47	50	47

- Draw a stem and leaf diagram for the above data.
- Mean number of people visiting the store.
- Median number of people.
- Range of people.
- Modal number of people

- b) A survey has been conducted to find the number of family members in a particular street and the results are tabulated. Calculate mean, median and mode for the data.

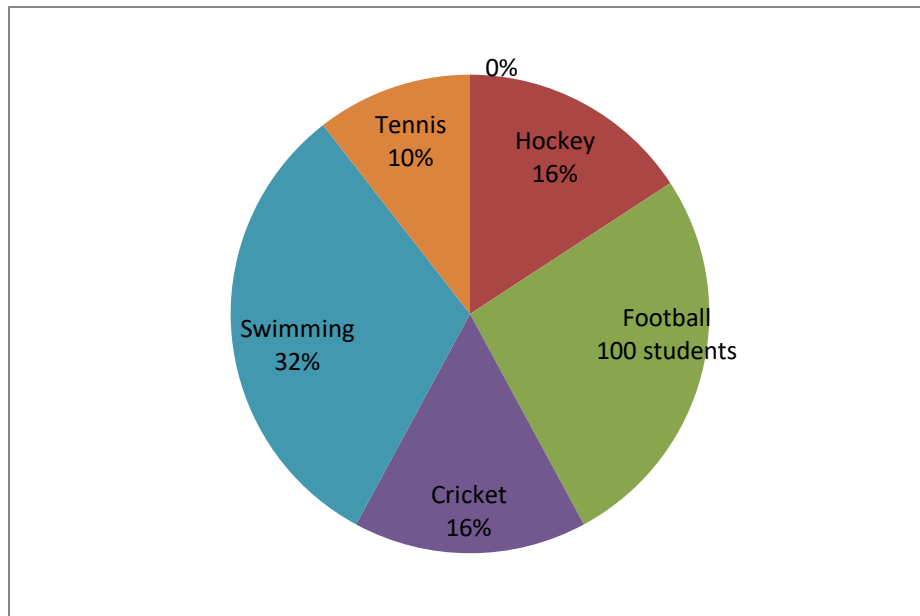
Family members	3	4	5	6	7	8
frequency	8	20	18	15	12	5

- c) The following data shows the grades obtained in a math exam with 45 participants.

Grade	A+	A	B	C	D	F	
No. Of Student	4	18	11	7	3	2	

Draw a pie chart for the above data

- d) The following pie chart shows the data for the favorite sports for the students in a school.



Find

- i) The total number of students in the school.
- ii) The number of students who played hockey and swimming.

Question 7

a) Complete the table

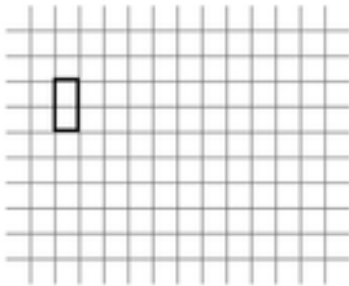
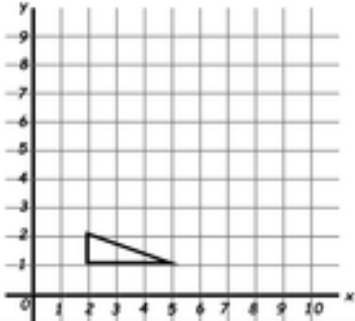
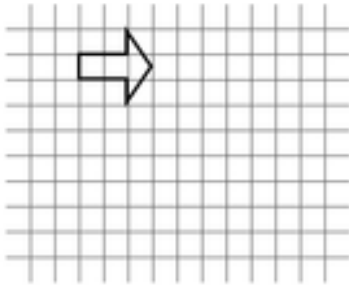
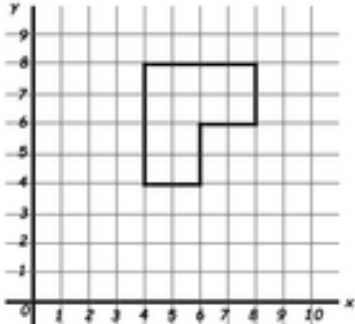
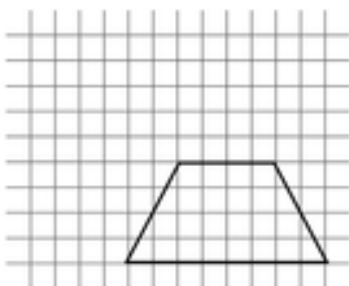
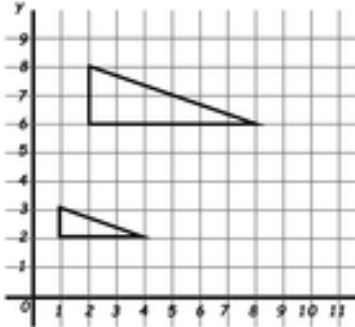
	Two pairs of equal sides	All angles are 90°	Lines of symmetry	Order of R.S	Diagonals equal
Parallelogram	Yes	No	None	2	No
Square					
Rectangle					
Trapezium					
Kite					
Rhombus					
Regular Pentagon					

b) Design a pattern of your own with the following properties

- i) Order of R.S 5
 - ii) Lines of symmetry 5
 - iii) No lines of symmetry but order of rotational symmetry 3
 - iv) No lines of symmetry but order of rotational symmetry 4
 - v) Having equal number of lines of symmetry and order of rotational symmetry.
- c) Give an example of two non congruent triangles with two equal sides and one equal angle.

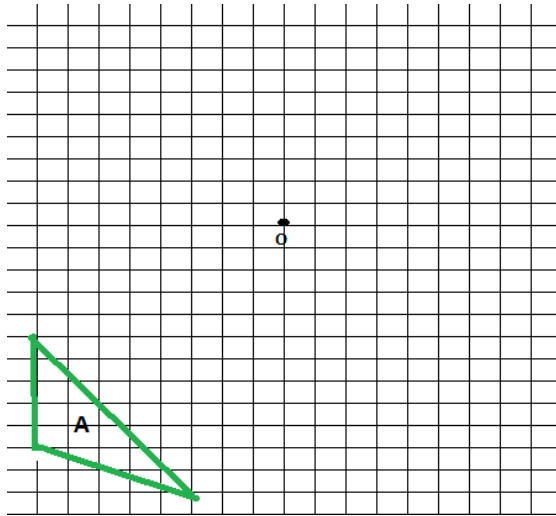
Question 8

a) Do the following transformations

<p>1 Enlarge this shape by a scale factor of 3</p> 	<p>4 Enlarge the shape by a scale factor of 2 through the centre (3, 3)</p> 
<p>2 Enlarge this shape by a scale factor of 2</p> 	<p>5 Enlarge the shape by a scale factor of $\frac{1}{2}$ through the origin.</p> 
<p>3 Enlarge this shape by a scale factor of $\frac{1}{2}$</p> 	<p>6 Describe the transformation from shape A to shape B</p> 

b) Rotate the triangle A through 90° clockwise.

c) Translate triangle A 4 units right and 3 units up, then rotate it through 270° clockwise.



Question 9

- d) Draw the nets of the following figure.
- A cuboid of dimensions 2, 2 and 6 cm.
 - A regular tetrahedron of side length 3cm each.

Question 10

- A fair coin is tossed find the probability of head appearing on top.
- A fair coin is tossed two times. Find the probability that tail appears on both the coins.
- A fair coin is tossed three times. Find the probability that
 - At least one head appears on top
 - At most two tail appear on top.
 - No coin shows tail
- Two six sided dice are rolled and dots appearing on top are added. Find the probability that the sum of dots is
 - Even number
 - Not an even number
 - A prime number
 - A multiple of 6

Question 11

- Simplify the following expressions

- i) $2x + 3y - 4x + 2xy - 20y$
ii) $3xy(x + 2) - 2x(3y - 4)$
iii) $2l(3l - 4m + n) - (l - m + 2n) - 4m + 2n$
iv) $3x - 4y + 3x(z - 3y) + 4z(x - 6y)$
v) $x(z + 4y) - y(z - 3x) + z(x + 5y)$

Question 12

a) Solve the following equations

- i) $2x + 3 = 5$
ii) $3(x - 4) = 4(2x - 7)$
iii) $\frac{x + 4}{2} = \frac{3 - 4x}{4}$
iv) $\frac{2(3x - 4)}{4(x - 19)} = \frac{14}{23}$
v) $3(x - 3) + 4(4 - 3x) + 2x(9) = 14$

- Review 4A and 4B of Checkpoint 2 are to be done on copies.
- Review 2A & 2B of Checkpoint 3 are to be done on copies.