Little Rose Academy High School
Model Town
HOLIDAYS HOMEWORK
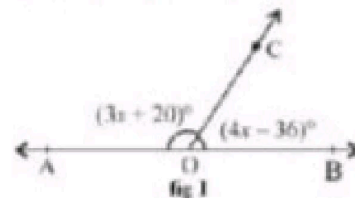## CLASS - *9th*

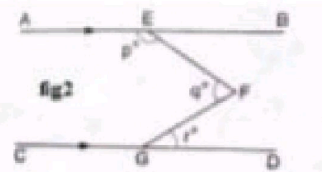# Have a great
SUMMER VACATION

LINES AND ANGLES

CLASS - 9

Q.1 Two adjacent angles on a straight line are in the ratio 6 : 3. The measure of the greater angle is :
(a) 120°   (b) 180°   (c) 90°   (d) 110°

Q.2 If one of the four angles formed by two intersecting lines is a right angle, then each of the four angles is :
(a) an acute angle   (b) a right angle   (c) an obtuse angle   (d) none of these

Q.3 One-third of an angle is equal to its supplement. The measure of this angle is :
(a) 45°   (b) 60°   (c) 75°   (d) 135°

Q.4 If all the three sides of a triangle are produced, then the sum of three exterior angles so formed is equal to :
(a) 180°   (b) 360°   (c) 540°   (d) 270°

Q.5 50% of an angle is the supplement of 110°. The value of the angle is :
(a) 35°   (b) 125°   (c) 109°   (d) 140°

Q.6 The sum of two angles of a triangle is equal to its third angle. Determine the measure of the third angle.

Q.7 Find the angle whose supplement is four times of its complement.

Q.8 Find the measure of an angle, if seven times its complement is 10° less than three times its supplement.

Q.9 In the figure 1, what value of x will make AOB, a straight line.

Q.10 Two adjacent angles on a straight line are in the ratio of 5 : 4. Find the measure of each angle.

Q.11 In the fig 2 AB∥CD. Prove that $p + q - r = 180$.

Q.12 If two lines are perpendicular to the same line, prove that they are parallel to each other.

Q.13 In triangle ABC, if $2\angle A = 3\angle B = 6\angle C$. calculate the measure of all three angles.

Q.14 In triangle ABC, if $\angle A - \angle B = 33°$ and $\angle B - \angle C = 18°$. Calculate the measure of all three angles.

Q.15 A triangle ABC is right angled at A. L is a point on BC such that AL ⊥ BC. Prove that $\angle BAL = \angle ACB$.

Which of the following equations are linear equations?

(i) $(3/2)x + 4 = 2x - 3$

(ii) $5y - 3 = 2y + 4$

(iii) $u + 4 = u^2 - 4$

(iv) $3x + 2 = 5x - 7$

(v) $x^2 + 2 = x + 1$

(vi) $y - 3 = 3y + 4$

(vii) $u + 1/u = 5$

(viii) $(x - 1)^2 = x^2 - 2$

(ix) $(x - 1)(x - 2) = 6$

(x) $(x - 2)(x + 3) = x + 7$

In the following equations, verify whether the given value of the variable is a solution of the equation:

(i) $x + 4 = 2x$; $x = 4$

(ii) $y - 7 = 3y + 8$; $y = 3$

(iii) $3u + 2 = 2u + 7$; $u = 5$

(iv) $2x - 3 = x/2 - 2$; $x = \sqrt{2}$

(v) $(5/2)x + 3 = 21/2$; $x = 3$

(vi) $24 - 3(u - 2) = u + 8$; $u = -1$

(vii) $(x - 2) + (x + 3) = x + 8$; $x = 0$.

R no-1 to 15-
Make a model of Plant cell .
R. No -16 to 30-
Make a model of Animal cell

Subject – Physics   **Force and Laws of Motion**

Class – IX

VERY SHORT ANSWER TYPE QUESTIONS

Directions(Q1): In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as:

(a) Both (A) and (R) are true and (R) is the correct explanation of (A).

(b) Both (A) and (R) are true but (R) is not the correct explanation of (A).

(c) (A) is true but (R) is false.

(d) (A) is false but (R) is true.

Q1. (A): If the net external force on the body is zero, then its acceleration is zero.

(R): Acceleration does not depend on force

Q2. Define balanced force.

Q3. State Newton's third law of motion.

SHORT ANSWER TYPE QUESTIONS

Q4. All the cars are provided with seat belts. Give reason.

Q5. A hammer strikes a nail with a hammer of mass 500 g moving with a velocity of 20 m/s. The hammer comes to rest in 0.02 s after striking the nail. Calculate the force exerted by the nail on the hammer.

Q6. A cricket player lowers his hands while catching the ball.

LONG ANSWER TYPE QUESTIONS

Q7. Derive the mathematical formulation of second law of motion.

Q8. An iron sphere of 1 kg is moving with a velocity of 20 m/s on a cemented floor. It comes to rest after travelling a distance of 50 m. Find the force of friction between the sphere and the floor.

Class 9th

Subject- S.ST

Q1. At the beginning of the 20th century, the majority of the Russian people worked in the
A. Industrial sector
B. Agricultural sector
C. Mining sector
D. Transport sector

Q2. Which of the following ideas that attracted widespread attention on the restructuring of society during the mid-19th century in Europe?
A. Capitalism
B. Socialism
C. Dictatorship
D. None of the above

Q3. Which religion was followed by most of the people of Russia?
A. Catholics
B. Protestants
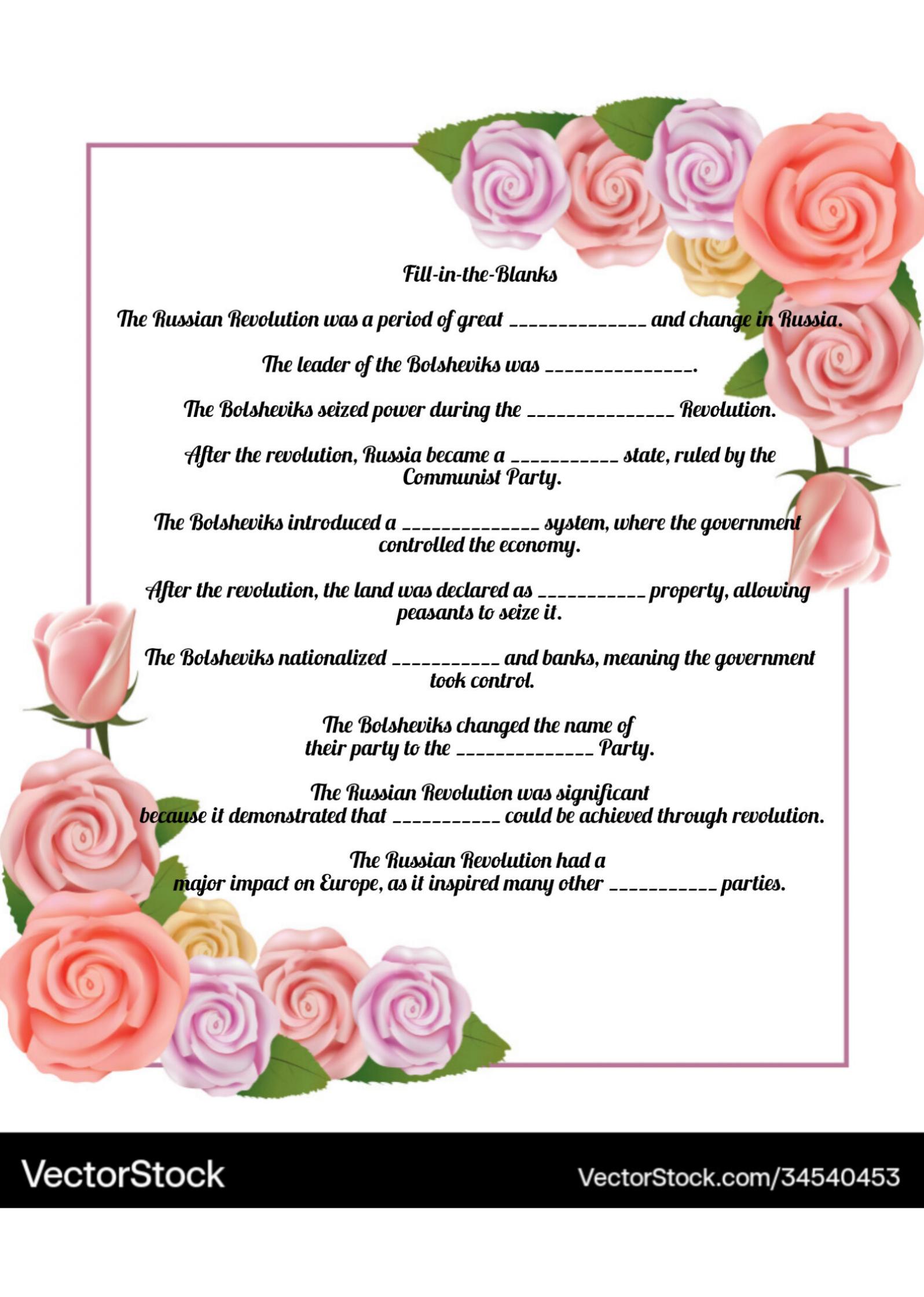C. Russian Orthodox Christianity
D. None of the above

Q4. Who were the "Jadidists"?
A. They were nationalists
B. They were revolutionaries
C. They were Buddhists
D. They were the Muslim reformers within the Russian empire

Q5. During the World War I, Russia fought against
A. Britain & France
B. Germany, Austria & Turkey
C. America
D. All of the above

Q6. Why did the Tsar dismiss the first Duma within 75 days of its election?
A. Because it was incapable of taking good decisions
B. Because the Tsar did not want anyone to question his authority
C. The term of first Duma was of 75 days only
D. None of the above

Fill-in-the-Blanks

The Russian Revolution was a period of great _____ and change in Russia.

The leader of the Bolsheviks was _____.

The Bolsheviks seized power during the _____ Revolution.

After the revolution, Russia became a _____ state, ruled by the Communist Party.

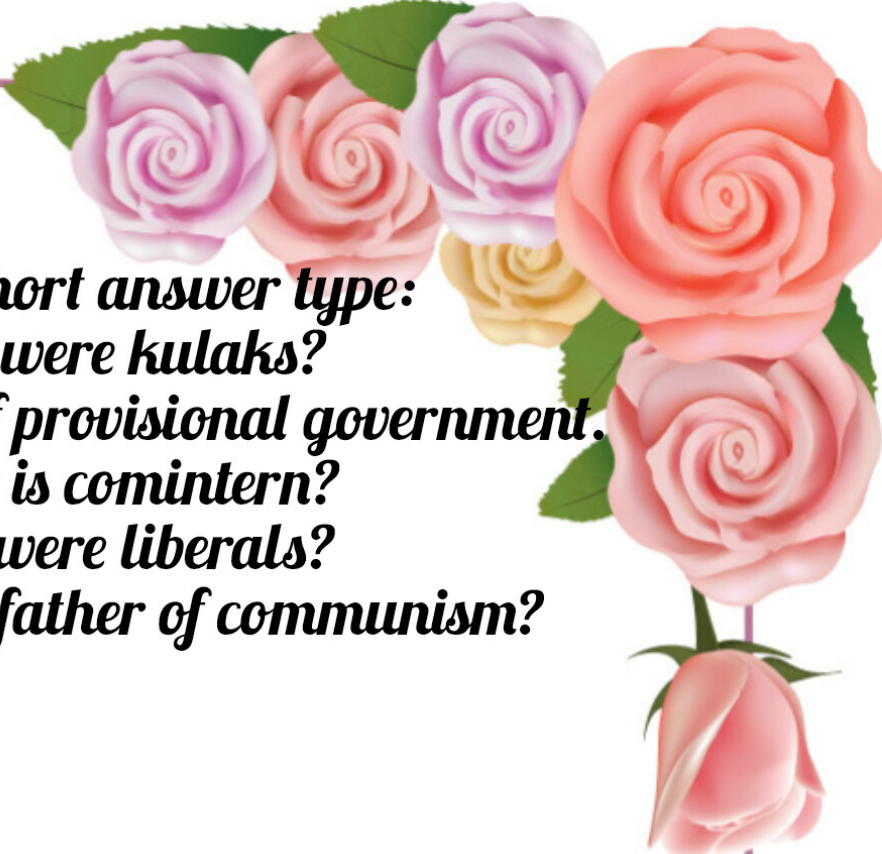The Bolsheviks introduced a _____ system, where the government controlled the economy.

After the revolution, the land was declared as _____ property, allowing peasants to seize it.

The Bolsheviks nationalized _____ and banks, meaning the government took control.

The Bolsheviks changed the name of their party to the _____ Party.

The Russian Revolution was significant because it demonstrated that _____ could be achieved through revolution.

The Russian Revolution had a major impact on Europe, as it inspired many other _____ parties.

3. Very short answer type:
. Who were kulaks?
. Name a leader of provisional government.
. What is comintern?
. Who were liberals?
. Who was the father of communism?

Trace the factors leading to the Russian Revolution.
Mention the events and changes that too place during this period.

प्रश्न 3 निबंध -   1) विज्ञान के चमत्कार

2) प्रदूषण: कारण एवं निवारण

प्रश्न 4 पत्र लेखन:- पारिवारिक पत्र
(कोई दो लिखें।)

प्रश्न 5 परियोजना कार्य :-   स्वस्थ्य जीवन शैली पर एक कविता लिखें तथा अपनी रचनात्मक कला का प्रयोग करते हुए, एक पोस्टर बनाएँ जो स्वस्थ्य जीवन शैली के महत्त्व को दर्शाता हो ।

ग्रीष्मकालीन अवकाश कार्य

प्रश्न 1 वस्तुनिष्ठ प्रश्न

पाठ - 10 यमराज की दिशा

पाठ - 15 बड़े घर की बेटी

(प्रत्येक पाठ में से दस-दस लघु प्रश्नोत्तर लिखिए।)

प्रश्न 2 व्याकरण

      क) मुहावरे   (20)

      ख) पर्यायवाची शब्द   (20)

      ग) वाक्यांश   (20)

      घ) अनेकार्थी शब्द   (20)

      ङ) विलोम शब्द   (20)

नोट:- लिखें तथा याद करें ।

English

Tempest

1. What is the name of the main character in the play, "The Tempest"?
2. What is the name of the spirit who serves Prospero?
3. Who is the daughter of Prospero?
4. What does Prospero use his magic for?
5. Who is Caliban's mother?

From the poem Road Not Taken

1. What color is used to describe the woods in the poem?
2. What does the poet mean by "the road less travelled by"?
3. Why does the poet choose one road over the other?
4. What is the main message of the poem "The Road Not Taken"?
5. Who is the poet of this poem?

Beauty

1. Who is the poet of this poem?
2. To whom this poem address to?
3. Describe the shape and colour of poet's beloved.
4. Have you ever seen any beautiful sight? Describe it
5. What according to you is the most beautiful creatur on this earth

Saint of gutters

1. Who is address as the greatest saint in the chapter Saint of gutters?
2. What is the full name of Mother Thersa?
3. Why did she learn Bengali?
4. Why did she leave St. Mary School?
5. Name the awards she was rewarded to.

Project time: Make a handmade dictionary by writing 5 words daily over it with meaning and using it in sentences.

Happy Vacations

Reported Speech

A Rewrite the following positive sentences.

1. "Angela likes fashion magazines."

   She said ――――――――――――――――

2. "Charles is a wonderful person."

   She said ――――――――――――――――

3. "I'm having a party tomorrow."

   She said ――――――――――――――――

4. "These are my favourite books."

   He said ――――――――――――――――

5. "We are having a great time."

   She said ――――――――――――――――

6. "Peter is driving his new bike."

   She said ――――――――――――――――

7. "Susan buys many teen magazines."

   She said ――――――――――――――――

8. "Daniel writes every day."

   She said ――――――――――――――――

B Rewrite the following negative sentences.

1. "Sally doesn't like horror films."

   Arthur said ――――――――――――――

2. "Mary doesn't go to school on foot."

   She said ――――――――――――――――

3. "Rich isn't watching TV."

   She said ――――――――――――――――

4. "The fireplace isn't working properly."

   She said ――――――――――――――――

5. "John doesn't take a bath every day."

   Martha said ――――――――――――――

6. "He doesn't enjoy being alone."

   She said ――――――――――――――――

7. "My cousin Peter doesn't speak Spanish."

   She said ――――――――――――――――

8. "They don't understand their parents."

   She said ――――――――――――――――

C Rewrite the following interrogative sentences.

1. "Does Angela like fashion magazines?"

   She asked――――――――――――――――

2. "Where is my suitcase?"

   She asked――――――――――――――――

3. "Do you enjoy watching TV?"

   She asked me ―――――――――――――

4. "Does Rachel wear glasses?"

   He wanted to know ―――――――――――

5. "How do you come to school?"

   He wanted to know ―――――――――――

6. "Can you spell your name?"

   She asked me ―――――――――――――

7. "Where is the calendar?"

   He wanted to know ―――――――――――

8. "Is this your mobile phone?"

   He asked me ―――――――――――――

D Rewrite the following sentences (mixed forms).

1. "Andrew is a great fan of Keane."

   She said ――――――――――――――――

2. "Charles isn't sleeping now."

   She said ――――――――――――――――

3. "Paula is a very happy person."

   She said ――――――――――――――――

4. "Why do you want to work there?"

   He wanted to know ―――――――――――

5. "This isn't my favourite food."

   He said ――――――――――――――――

6. "What time is it?"

   He asked me ―――――――――――――

7. "I don't want to go abroad."

   He said ――――――――――――――――

8. "She has a beautiful smile."

   She said ――――――――――――――――