The British Army during World War I fought the largest and most costly war in its long history . Unlike the French and German Armies , its units were made up exclusively of volunteers ? as opposed to conscripts ? at the beginning of the conflict . Furthermore , the British Army was considerably smaller than its French and German counterparts .

During World War I , there were three distinct British Armies . The " first " army was the small volunteer force of 400 @,@ 000 soldiers , over half of which were posted overseas to garrison the British Empire . This total included the Regular Army and reservists in the Territorial Force . Together , they formed the British Expeditionary Force (BEF) , which was formed for service in France and became known as the Old Contemptibles . The ' second ' army was Kitchener 's Army , formed from the volunteers in 1914 ? 1915 destined to go into action at the Battle of the Somme . The ' third ' was formed after the introduction of conscription in the United Kingdom in January 1916 , and by the end of 1918 , the British Army had reached its maximum strength of 4 @,@ 000 @,@ 000 men and could field over 70 divisions . The vast majority of the British Army fought in the main theatre of war on the Western Front in France and Belgium against the German Empire . Some units were engaged in Italy and Salonika against Austria @-@ Hungary and the Bulgarian Army , while other units fought in the Middle East , Africa and Mesopotamia ? mainly against the Ottoman Empire ? and one battalion fought alongside the Japanese Army in China during the Siege of Tsingtao .

The war also posed problems for the army commanders , given that , prior to 1914 , the largest formation any serving General in the BEF had commanded on operations was a division . The expansion of the British Army saw some officers promoted from brigade to corps commander in less than a year . Army commanders also had to cope with the new tactics and weapons that were developed . With the move from manoeuvre to trench warfare , both the infantry and the artillery had to learn how to work together . During an offensive , and when in defence , they learned how to combine forces to defend the front line . Later in the war , when the Machine Gun Corps and the Tank Corps were added to the order of battle , they were also included in the new tactical doctrine .

The men at the front had to struggle with supply problems - there was a shortage of food; and disease was rife in the damp, rat @-@ infested conditions. Along with enemy action, many troops had to contend with new diseases: trench foot, trench fever and trench nephritis. When the war ended in 1918, British Army casualties, as the result of enemy action and disease, were recorded as 673 @,@ 375 killed and missing, with another 1 @,@ 643 @,@ 469 wounded. The rush to demobilise at the end of the war substantially decreased the strength of the British Army, from its peak of 4 @,@ 000 @,@ 000 men in 1918 to 370 @,@ 000 men by 1920.

= = Organization = =

The British Army during World War I could trace its organisation to the increasing demands of imperial expansion . The framework was the voluntary system of recruitment and the regimental system , which had been defined by the Cardwell and Childers Reforms of the late 19th century . The British Army had been prepared and primarily called upon for Empire matters and the ensuing colonial wars . In the last years of the 19th century , the Army was involved in a major conflict , the Second Boer War (1899 ? 1902) , which highlighted shortcomings in its tactics , leadership and administration . The 1904 Esher Report recommended radical reform , such as the creation of an Army Council , a General Staff , the abolition of the office of Commander @-@ in @-@ Chief of the Forces , and the creation of a Chief of the General Staff . The Haldane Reforms of 1907 formally created an Expeditionary Force of seven divisions (one cavalry , six infantry) , reorganised the volunteers into a new Territorial Force of fourteen cavalry brigades and fourteen infantry divisions , and changed the old militia into the Special Reserve to reinforce the expeditionary force .

At the outbreak of the war in August 1914, the British regular army was a small professional force. It consisted of 247 @,@ 432 regular troops organised in four regiments of Guards (Grenadier, with 3 Battalions; Coldstream, with 3 Battalions; Scots, with 2 Battalions; Irish with 1 Battalion), 68 regiments of the line and the Rifle Brigade (despite its name, this was an infantry regiment), 31

cavalry regiments , artillery and other support arms . Most of the line infantry regiments had two regular battalions , one of which served at home and provided drafts and replacements to the other which was stationed overseas , while also being prepared to be part of the Expeditionary Force - the Royal Fusiliers , Worcestershire Regiment , Middlesex Regiment , King 's Royal Rifle Corps and the Rifle Brigade (Prince Consort 's Own) had four regular battalions , two of which served overseas . Almost half of the regular army (74 of the 157 infantry battalions and 12 of the 31 cavalry regiments) , was stationed overseas in garrisons throughout the British Empire . The Royal Flying Corps was part of the British Army until 1918 . At the outbreak of the war , it consisted of 84 aircraft .

The regular army was supported by the Territorial Force , and by reservists . In August 1914 , there were three forms of reserves . The Army Reserve of retired soldiers was 145 @,@ 350 strong . They were paid 3 Shillings and 6 pence a week (17 @.@ 5 pence) worth about £ 70 per week in 2013 terms , and had to attend 12 training days per year . The Special Reserve had another 64 @,@ 000 men and was a form of part @-@ time soldiering , similar to the Territorial Force . A Special Reservist had an initial six months full @-@ time training and was paid the same as a regular soldier during this period ; they had three or four weeks training per year thereafter . The National Reserve had some 215 @,@ 000 men , who were on a register that was maintained by Territorial Force County Associations ; these men had military experience , but no other reserve obligation .

The regulars and reserves ? at least on paper ? totalled a mobilised force of almost 700 @,@ 000 men , although only 150 @,@ 000 men were immediately available to be formed into the British Expeditionary Force (BEF) that was sent to the continent . This consisted of six infantry divisions and one of cavalry . By contrast , the French Army in 1914 mobilised 1 @,@ 650 @,@ 000 troops and 62 infantry divisions , while the German Army mobilised 1 @,@ 850 @,@ 000 troops and 87 infantry divisions .

Britain, therefore, began the war with six regular and 14 reserve infantry divisions. During the war, a further six regular, 14 Territorial, 36 Kitchener 's Army and six other divisions, including the Naval Division from the Royal Navy were formed.

In 1914, each British infantry division consisted of three infantry brigades, each of four battalions, with two machine guns per battalion, (24 in the division). They also had three field artillery brigades with fifty @-@ four 18 @-@ pounder guns, one field howitzer brigade with eighteen 4 @.@ 5 in (110 mm) howitzers, one heavy artillery battery with four 60 @-@ pounder guns, two engineer field companies, one royal engineer signals company, one cavalry squadron, one cyclist company, three field ambulances, four Army Service Corps horse @-@ drawn transport companies and divisional headquarters support detachments.

The single cavalry division assigned to the BEF in 1914 consisted of 15 cavalry regiments in five brigades . They were armed with rifles , unlike their French and German counterparts , who were only armed with the shorter range carbine . The cavalry division also had a high allocation of artillery compared to foreign cavalry divisions , with 24 13 @-@ pounder guns organised into two brigades and two machine guns for each regiment . When dismounted , the cavalry division was the equivalent of two weakened infantry brigades with less artillery than the infantry division . By 1916 , there were five cavalry divisions , each of three brigades , serving in France , the 1st , 2nd , 3rd divisions in the Cavalry Corps and the 1st and 2nd Indian Cavalry Divisions in the Indian Cavalry Corps , each brigade in the Indian cavalry corps contained a British cavalry regiment .

Over the course of the war , the composition of the infantry division gradually changed , and there was an increased emphasis on providing the infantry divisions with organic fire support . By 1918 , a British division consisted of three infantry brigades , each of three battalions . Each of these battalions had 36 Lewis machine guns , making a total of 324 such weapons in the division . Additionally , there was a divisional machine gun battalion , equipped with 64 Vickers machine guns in four companies of 16 guns . Each brigade in the division also had a mortar battery with eight Stokes Mortars . The artillery also changed the composition of its batteries . At the start of the war , there were three batteries with six guns per brigade ; they then moved to four batteries with four guns per brigade , and finally in 1917 , to four batteries with six guns per brigade to economise on battery commanders . In this way , the army would change drastically over the course of the war ,

reacting to the various developments , from the mobile war fought in the opening weeks to the static trench warfare of 1916 and 1917 . The cavalry of the BEF represented 9 @.@ 28 % of the army ; by July 1918 , it would only represent 1 @.@ 65 % . The infantry would decrease from 64 @.@ 64 % in 1914 to 51 @.@ 25 % of the army in 1918 , while the Royal Engineers would increase from 5 @.@ 91 % to 11 @.@ 24 % in 1918 .

= = British Expeditionary Force = =

Under the terms of the Entente Cordiale , the British Army 's role in a European war was to embark soldiers of the British Expeditionary Force (BEF), which consisted of six infantry divisions and five cavalry brigades that were arranged into two Army corps: I Corps, under the command of Douglas Haig, and II Corps, under the command of Horace Smith @-@ Dorrien. At the outset of the conflict, the British Indian Army was called upon for assistance; in August 1914, 20 percent of the 9 @,@ 610 British officers initially sent to France were from the Indian army, while 16 percent of the 76 @,@ 450 other ranks came from the British Indian Army.

German Emperor Kaiser Wilhelm? who was famously dismissive of the BEF? issued an order on 19 August 1914 to "exterminate ... the treacherous English and walk over General French's contemptible little army ". Hence, in later years, the survivors of the regular army dubbed themselves "The Old Contemptibles ". By the end of 1914 (after the battles of Mons, Le Cateau, the Aisne and Ypres), the old regular British Army had been virtually wiped out; although it managed to stop the German advance.

In October 1914, the 7th Division arrived in France, forming the basis of the British III Corps; the cavalry had grown into its own corps of three divisions. By December 1914, the BEF had expanded, fielding five army corps divided between the First and the Second Armies. As the Regular Army 's strength declined, the numbers were made up? first by the Territorial Force, then by the volunteers of Field Marshal Kitchener 's, New Army. By the end of August 1914, he had raised six new divisions; by March 1915, the number of divisions had increased to 29. The Territorial Force was also expanded, raising second and third battalions and forming eight new divisions, which supplemented its peacetime strength of 14 divisions. The Third Army was formed in July 1915 and with the influx of troops from Kitchener 's volunteers and further reorganisation, the Fourth Army and the Reserve Army, which became the Fifth Army were formed in 1916.

= = Recruitment and conscription = =

In August 1914, 300 @,@ 000 men had signed up to fight, and another 450 @,@ 000 had joined @-@ up by the end of September. Recruitment remained fairly steady through 1914 and early 1915 , but it fell dramatically during the later years , especially after the Somme campaign , which resulted in 360 @,@ 000 casualties. A prominent feature of the early months of volunteering was the formation of Pals battalions. Many of these pals who had lived and worked together, joined up and trained together and were allocated to the same units. The policy of drawing recruits from amongst the local population ensured that, when the Pals battalions suffered casualties, whole towns, villages, neighbourhoods and communities back in Britain were to suffer disproportionate losses. With the introduction of conscription in January 1916, no further Pals battalions were raised. Conscription for single men was introduced in January 1916. Four months later, in May 1916, it was extended to all men aged 18 to 41. The Military Service Act March 1916 specified that men from the ages of 18 to 41 were liable to be called up for service in the army, unless they were married (or widowed with children), or served in one of a number of reserved occupations, which were usually industrial but which also included clergymen and teachers. This legislation did not apply to Ireland, despite its then status as part of the United Kingdom (but see Conscription Crisis of 1918) . By January 1916 , when conscription was introduced , 2 @.@ 6 million men had volunteered for service, a further 2 @.@ 3 million were conscripted before the end of the war; by the end of 1918, the army had reached its peak strength of four million men.

Women also volunteered and served in a non @-@ combatant role; by the end of the war, 80

@,@ 000 had enlisted . They mostly served as nurses in the Queen Alexandra 's Imperial Military Nursing Service (QAIMNS) , the First Aid Nursing Yeomanry (FANY) , the Voluntary Aid Detachment (VAD) ; and from 1917 , in the Army when the Queen Mary 's Army Auxiliary Corps (WAAC) , was founded . The WAAC was divided into four sections : cookery ; mechanical ; clerical and miscellaneous . Most stayed on the Home Front , but around 9 @,@ 000 served in France .

= = Commanders = =

In 1914, no serving British officer of the British Expeditionary Force (BEF) had controlled a formation larger than a division on active operations. The first Commander in Chief of the BEF appointed in August 1914 was Field Marshal John French. His last active command had been the cavalry division in the Second Boer War.

The commander of the British I Corps in 1914 was Douglas Haig . French had remarked in 1912 that Haig would be better suited to a position on the staff than a field command . Like French , Haig was a cavalryman . His last active command had been during the Second Boer War , first as a senior staff officer in the cavalry division , then commanding a brigade @-@ sized group of columns . The first commander of the British II Corps was Lieutenant General James Grierson , a noted tactician who died of a heart attack soon after arriving in France . French wished to appoint Lieutenant General Herbert Plumer in his place , but against French 's wishes , Kitchener instead appointed Lieutenant General Horace Smith @-@ Dorrien , who had begun his military career in the Zulu War in 1879 and was one of only five officers to survive the battle of Isandlwana . He had built a formidable reputation as an infantry commander during the Sudan Campaign and the Second Boer War . After the Second Boer War , he was responsible for a number of reforms , notably forcing an increase in dismounted training for the cavalry . This was met with hostility by French (as a cavalryman) . By 1914 , French 's dislike for Smith @-@ Dorrien was well known within the army .

After the failed offensive at the Battle of Loos in 1915, French was replaced as commander of the BEF by Haig, who remained in command for the rest of the war. He became most famous for his role as its commander during the battle of the Somme, the battle of Passchendaele, and the Hundred Days Offensive, the series of victories leading to the German surrender in 1918. Haig was succeeded in command of the First Army by General Charles Carmichael Monro, who in turn was succeeded by General Henry Horne in September 1916, the only officer with an artillery background to command a British army during the war.

General Plumer was eventually appointed to command II Corps in December 1914, and succeeded Smith @-@ Dorrien in command of the Second Army in 1915. He had commanded a mounted infantry detachment in the Second Boer war, where he started to build his reputation. He held command of the Ypres salient for three years and gained an overwhelming victory over the German Army at the battle of Messines in 1917. Plumer is generally recognised as one of the most effective of the senior British commanders on the Western Front.

In 1914, General Edmund Allenby was commander of the Cavalry Division and later the Cavalry Corps in the BEF. His leadership was noted during the retreat from Mons and the first battle of Ypres. After commanding an infantry corps, he was appointed to command the Third Army on the western front. He had previously served in the Zulu War, the Sudan campaign, and the Second Boer war. In 1917, he was given command of the Egyptian Expeditionary Force, where he oversaw the conquest of Palestine and Syria in 1917 and 1918. Allenby replaced Archibald Murray, who had been the Chief of Staff of the British Expeditionary Force in France in 1914.

Allenby was replaced as Third Army commander by General Julian Byng, who began the war as commander of the 3rd Cavalry Division. After performing well during the First Battle of Ypres, he succeeded Allenby in command of the Cavalry Corps. He was sent to the Dardanelles in August 1915, to command the British IX Corps. He planned the highly successful evacuation of 105 @,@ 000 Allied troops and the majority of the equipment of the Mediterranean Expeditionary Force (MEF). The withdrawal was successfully completed in January 1916, without the loss of a single man. Byng had already returned to the western front, where he was given command of the Canadian

Corps . His most notable battle was the Battle of Vimy Ridge in April 1917, which was carried out by the Canadian Corps with British support .

General Henry Rawlinson served on Kitchener 's staff during the advance on Omdurman , in 1898 , and served with distinction in the Second Boer War , where he earned a reputation as one of the most able British commanders . Rawlinson took command of the British IV Corps in 1914 and then command of the Fourth Army in 1916 , as the plans for the Allied offensive on the Somme were being developed . During the war , Rawlinson was noted for his willingness to use innovative tactics , which he employed during the battle of Amiens , where he combined attacks by tanks with artillery .

General Hubert Gough commanded a mounted infantry regiment with distinction during the relief of Ladysmith , but his command was destroyed while attacking a larger Boer force in 1901 . When he joined the BEF , he was in command of the 3rd Cavalry Brigade , and was promoted from a brigade to a corps command in less than a year . He was given command of the 2nd Cavalry Division in September 1914 , the 7th Division in April 1915 , and the British I Corps in July 1915 . He commanded I Corps during the battle of Loos . In May 1916 , he was appointed commander of the Fifth Army , which suffered heavy losses at the battle of Passchendaele . The collapse of the Fifth Army was widely viewed as the reason for the German breakthrough in the Spring Offensive , and Gough was dismissed as its commander in March 1918 , being succeeded by General William Birdwood for the last months of the war . Birdwood had previously commanded the Australian Corps , an appointment requiring a combination of tact and tactical flair .

On the Macedonian front, General George Milne commanded the British Salonika Army, and General Ian Hamilton commanded the ill @-@ fated MEF during the Gallipoli Campaign. He had previously seen service in the First Boer War, the Sudan campaign, and the Second Boer War.

Back in Britain , Chief of the Imperial General Staff (CIGS) , effectively the professional commander of the British Army , was General James Murray , who retained that post during the early years of the war . He was replaced as CIGS in 1916 by General William Robertson . A strong supporter of Haig , Robertson was replaced in 1918 , by General Henry Hughes Wilson .

= = = Officer selection = = =

In August 1914, there were 28 @,@ 060 officers in the British Army, of which 12 @,@ 738 were regular officers, the rest were in the reserves. The number of officers in the army had increased to 164 @,@ 255 by November 1918. These were survivors among the 247 @,@ 061 officers who had been granted a commission during the war.

Most pre @-@ war officers came from families with military connections, the gentry or the peerage; a public school education was almost essential. In 1913, about 2 % of regular officers had been promoted from the ranks. The officer corps, during the war, consisted of regular officers from the peacetime army, officers who had been granted permanent commissions during the war, officers who had been granted temporary commissions for the duration of the war, territorial army officers commissioned during peacetime, officers commissioned from the ranks of the pre @-@ war regular and territorial army and temporary officers commissioned from the ranks for the duration of the war alone.

In September 1914, Lord Kitchener announced that he was looking for volunteers and regular NCOs to provide officers for the expanding army . Most of the volunteers came from the middle class, with the largest group from commercial and clerical occupations (27 %), followed by teachers and students (18 %) and professional men (15 %). In March 1915, it was discovered that 12 @,@ 290 men serving in the ranks had been members of a university or public school Officers 'Training Corps (OTC). Most applied for and were granted commissions, while others who did not apply were also commissioned. Direct commissioning largely ceased early in 1916, from then most new officers had served in the ranks first, even if in a unit of potential officers.

Once a candidate was selected as an officer , promotion could be rapid . A. S. Smeltzer was commissioned as a Second Lieutenant in 1915 , after serving in the Regular Army for 15 years . He rose in rank , and by the Spring of 1917 had been promoted to Lieutenant Colonel and was

commanding officer of the 6th Battalion, The Buffs (Royal East Kent Regiment).

Along with rapid promotion , the war also noticeably lowered the age of battalion commanding officers . In 1914 , they were aged over 50 , while the average age for a battalion commanding officer in the BEF between 1917 and 1918 was 28 . By this stage , it was official policy that men over 35 were no longer eligible to command battalions . This trend was reflected amongst the junior officers . Anthony Eden was the Adjutant of a battalion when aged 18 , and served as the Brigade Major in the 198th Brigade while still only aged 20 .

The war also provided opportunities for advancement onto the General Staff , especially in the early days , when many former senior officers were recalled from retirement . Some of these were found wanting , due to their advanced age , their unwillingness to serve , or a lack of competence and fitness ; most were sent back into retirement before the first year of the war was over , leaving a gap that had to be filled by lower @-@ ranking officers . Criticism of the quality of staff work in the Crimean War and the Second Boer War had led to sweeping changes under Haldane . The Staff College , Camberley was greatly expanded and Lord Kitchener established another staff college at Quetta for Indian Army officers in 1904 . Nonetheless , when war broke out in August 1914 , there were barely enough graduates to staff the BEF . Four @-@ month @-@ long staff courses were introduced , and filled with regimental officers who , upon completing their training , were posted to various headquarters . As a result , staff work was again poor , until training and experience slowly remedied the situation . In 1918 , staff officers who had been trained exclusively for static trench warfare were forced to adapt to the demands of semi @-@ open warfare .

During the course of the war, 78 British and Dominion officers of the rank of Brigadier @-@ General and above were killed or died during active service, while another 146 were wounded, gassed, or captured.

= = Doctrine = =

British official historian Brigadier James Edward Edmonds, in 1925, recorded that "The British Army of 1914 was the best trained, best equipped and best organized British Army ever sent to war ". This was in part due to the Haldane reforms, and the Army itself recognising the need for change and training. Training began with individual training in winter, followed by squadron, company or battery training in spring; regimental, battalion and brigade training in summer; and division or inter @-@ divisional exercises and army manoeuvres in late summer and autumn. The common doctrine of headquarters at all levels was outlined in the Field Service Pocket Book, which Haig had introduced while serving as Director of Staff Studies at the War Office in 1906.

The Second Boer War had alerted the army to the dangers posed by fire zones that were covered by long @-@ range , magazine @-@ fed rifles . In the place of volley firing and frontal attacks , there was a greater emphasis on advancing in extended order , the use of available cover , the use of artillery to support the attack , flank and converging attacks and fire and movement . The Army expected units to advance as far as possible in a firing line without opening fire , both to conceal their positions and conserve ammunition , then to attack in successive waves , closing with the enemy decisively .

The cavalry practised reconnaissance and fighting dismounted more regularly , and in January 1910 , the decision was made at the General Staff Conference that dismounted cavalry should be taught infantry tactics in attack and defence . They were the only cavalry from a major European power trained for both the mounted cavalry charge and dismounted action , and equipped with the same rifles as the infantry , rather than short @-@ range carbines . The cavalry were also issued with entrenching tools prior to the outbreak of war , as a result of experience gained during the Second Boer War .

The infantry 's marksmanship , and fire and movement techniques , had been inspired by Boer tactics and was established as formal doctrine by Colonel Charles Monro when he was in charge of the School of Musketry at Shorncliffe . In 1914 , British rifle fire was so effective that there were some reports to the effect that the Germans believed they were facing huge numbers of machine guns . The Army concentrated on rifle practice , with days spent on the ranges dedicated to

improving marksmanship and obtaining a rate of fire of 15 effective rounds a minute at 300 yd (270 m); one sergeant set a record of 38 rounds into a 12 in (300 mm) target set at 300 yd (270 m) in 30 seconds . In their 1914 skill @-@ at @-@ arms meeting , the 1st Battalion Black Watch recorded 184 marksmen , 263 first @-@ class shots , 89 @-@ second @-@ class shots and four third @-@ class shots , at ranges from 300 ? 600 yd (270 ? 550 m) . The infantry also practised squad and section attacks and fire from cover , often without orders from officers or NCOs , so that soldiers would be able to act on their own initiative . In the last exercise before the war , it was noted that the infantry made wonderful use of ground , advances in short rushes and always at the double and almost invariably fires from a prone position .

= = = Weapons = = =

The British Army was armed with the Short Magazine Lee? Enfield Mk III (SMLE Mk III), which featured a bolt @-@ action and large magazine capacity that enabled a trained rifleman to fire 20 ? 30 aimed rounds a minute. World War I accounts tell of British troops repelling German attackers, who subsequently reported that they had encountered machine guns, when in fact, it was simply a group of trained riflemen armed with SMLEs. The heavy Vickers machine gun proved itself to be the most reliable weapon on the battlefield, with some of its feats of endurance entering military mythology. One account tells of the action by the 100th Company of the Machine Gun Corps at High Wood on 24 August 1916. This company had 10 Vickers guns; it was ordered to give sustained covering fire for 12 hours onto a selected area 2 @,@ 000 yd (1 @,@ 800 m) away , to prevent German troops forming up there for a counterattack while a British attack was in progress. Two companies of infantry were allocated as ammunition, rations and water carriers for the gunners . Two men worked a belt? filling machine non? stop for 12 hours, keeping up a supply of 250 @-@ round belts. They used 100 new barrels and all of the water? including the men's drinking water and the contents of the latrine buckets? to keep the guns cool. In that 12 @-@ hour period, the 10 guns fired just short of one million rounds between them . One team is reported to have fired 120 @,@ 000. At the close of the operation, it is alleged that every gun was working perfectly and that not one had broken down during the whole period .

The lighter Lewis gun was adopted for land and aircraft use in October 1915 . The Lewis gun had the advantage of being about 80 % faster to build than the Vickers , and far more portable . By the end of World War I , over 50 @,@ 000 Lewis Guns had been produced ; they were nearly ubiquitous on the Western Front , outnumbering the Vickers gun by a ratio of about 3:1.

The Stokes Mortar was rapidly developed when it became clear that some type of weapon was needed to provide artillery @-@ like fire support to the infantry. The weapon was fully man @-@ transportable yet also capable of firing reasonably powerful shells at targets beyond the range of rifle grenades.

Finally, the Mark I tank? a British invention? was seen as the solution to the stalemate of trench warfare. The Mark I had a range of 23 mi (37 km) without refuelling, and a speed of 3 mph (4 @.@ 8 km/h); it first saw service on the Somme in September 1916.

= = = Infantry tactics = = =

After the " race to the sea " , manoeuvre warfare gave way to trench warfare , a development for which the British Army had not prepared . Expecting an offensive mobile war , the Army had not instructed the troops in defensive tactics and had failed to obtain stocks of barbed wire , hand grenades , or trench mortars . In the early years of trench warfare , the normal infantry attack formation was based on the battalion , which comprised four companies that were each made up of four platoons . The battalion would form 10 waves with 100 yd (91 m) between each , while each company formed two waves of two platoons . The first six waves were the fighting elements from three of the battalions ' companies , the seventh contained the battalion headquarters ; the remaining company formed the eighth and ninth waves , which were expected to carry equipment forward , the tenth wave contained the stretcher bearers and medics . The formation was expected

to move forward at a rate of 100 yd (91 m) every two minutes, even though each man carried his rifle, bayonet, gas mask, ammunition, two hand grenades, wire cutters, a spade, two empty sandbags and flares. The carrying platoons, in addition to the above, also carried extra ammunition, barbed wire and construction materials to effect repairs to captured lines and fortifications.

By 1918, experience had led to a change in tactics; the infantry no longer advanced in rigid lines, but formed a series of flexible waves. They would move covertly, under the cover of darkness, and occupy shell holes or other cover near the German line. Skirmishers formed the first wave and followed the creeping barrage into the German front line to hunt out points of resistance. The second or main wave followed in platoons or sections in single file. The third was formed from small groups of reinforcements, the fourth wave was expected to defend the captured territory. All waves were expected to take advantage of the ground during the advance. (see below for when operating with tanks)

Each platoon now had a Lewis gun section and a section that specialised in throwing hand @-@ grenades (then known as bombs) , each section was compelled to provide two scouts to carry out reconnaissance duties . Each platoon was expected to provide mutual fire support in the attack they were to advance , without halting ; but leap frogging was accepted , with the lead platoon taking an objective and the following platoons passing through them and onto the next objective , while the Lewis gunners provided fire support . Grenades were used for clearing trenches and dugouts , each battalion carried forward two trench mortars to provide fire support .

= = = Tank tactics = = =

The tank was designed to break the deadlock of trench warfare . In their first use on the Somme , they were placed under command of the infantry and ordered to attack their given targets in groups or pairs . They were also assigned small groups of troops , who served as an escort while providing close defence against enemy attacks . Only nine tanks reached the German lines to engage machine gun emplacements and troop concentrations . On the way , 14 broke down or were ditched , another 10 were damaged by enemy fire .

In 1917, during the battle of Cambrai, the Tank Corps adopted new tactics. Three tanks working together would advance in a triangle formation, with the two rear tanks providing cover for an infantry platoon. The tanks were to create gaps in the barbed wire for the accompanying infantry to pass through, then use their armament to suppress the German strong points. The effectiveness of tank? infantry co @-@ operation was demonstrated during the battle, when Major General George Montague Harper of the 51st (Highland) Division refused to co @-@ operate with the tanks, a decision that compelled them to move forward without any infantry support; the result was the destruction of more than 12 tanks by German artillery sighted behind bunkers.

The situation had changed again by 1918, when tank attacks would have one tank every 100 or 200 yd (180 m), with a tank company of 12? 16 tanks per objective. One section of each company would be out in front, with the remainder of the company following behind and each tank providing protection for an infantry platoon, who were instructed to advance, making use of available cover and supported by machine gun fire. When the tanks came across an enemy strong point, they would engage the defenders, forcing them into shelter and leaving them to the devices of the following infantry.

= = = Artillery tactics = = =

Prior to the war, the artillery worked independently and was taught to support the infantry to ensure a successful attack. In 1914, the heaviest artillery gun was the 60 @-@ pounder, four in each heavy battery. The Royal Horse Artillery employed the 13 @-@ pounder, while the Royal Field Artillery used the 18 @-@ pounder gun. By 1918, the situation had changed; the artillery were the dominant force on the battlefield. Between 1914 and 1918, the Royal Field Artillery had increased from 45 field brigades to 173 field brigades, while the heavy and siege artillery of the Royal

Garrison Artillery had increased from 32 heavy and six siege batteries to 117 heavy and 401 siege batteries.

With this increase in the number of batteries of heavier guns , the armies needed to find a more efficient method of moving the heavier guns around . (It was proving difficult to find the number of draught horses required .) The War office ordered over 1 @,@ 000 Holts caterpillar tractors , which transformed the mobility of the siege artillery . The army also mounted a variety of surplus naval guns on various railway platforms to provide mobile long @-@ range heavy artillery on the Western Front .

Until 1914, artillery generally fired over open sights at visible targets, the largest unit accustomed to firing at a single target was the artillery regiment or brigade. One innovation brought about by the adoption of trench warfare was the barrage? a term first used in the battle of Neuve Chapelle in 1915. Trench warfare had created the need for indirect fire, with the use of observers, more sophisticated artillery fire plans, and an increasingly scientific approach to gunnery, where artillerymen had to use increasingly complicated calculations to lay the guns. Individual guns were aimed so that their fall of shot was coordinated with others to form a pattern; in the case of a barrage, the pattern was a line.

The creeping barrage was a barrage that lifted in small increments, perhaps 50 yards (46 m), so that it moved forward slowly, keeping pace with the infantry, who were trained to follow close behind the moving wall of their own fire, often as close as 55 yd (50 m); infantry commanders were encouraged to keep their troops as close to the barrage as possible, even at the risk of casualties from friendly fire . A creeping barrage could maintain the element of surprise , with guns opening fire only shortly before the assault troops moved off . It was useful when enemy positions had not been thoroughly reconnoitred, as it did not depend on identifying individual targets in advance. The idea behind the creeping barrage was that the infantry should reach the enemy positions before the defenders had time to recover, emerge from shelters, and man their positions. On the first day of the battle of the Somme, the barrage outpaced the infantry, allowing the defenders to recover and emerge from their dugouts, with disastrous results for the attackers. The creeping barrage demonstrated its effectiveness a year later, in 1917, during the battle of Arras. A weakness of the creeping barrage was that the infantry was subordinated to the artillery schedule, while the infantry commanders had less control over the tactical situation and were therefore in danger of forgetting how to manoeuvre their troops around the battlefield. The importance of the barrage was such that traditional infantry tactics, including a reliance on the infantry 's own firepower to support its movement forward, was sometimes forgotten.

Once the infantry had reached the German trenches , the artillery shifted from the creeping barrage to the standing barrage , a static barrage that would protect the infantry from counter @-@ attack while they consolidated the position . A variant was the box barrage , in which three or four barrages formed a box ? or more often three sides of a box ? around a position to isolate and prevent reinforcements being brought up into the front line . This was normally used to protect trench raids , although it could also be used offensively against a German unit . Another type of barrage was the SOS barrage , fired in response to a German counterattack . An SOS barrage could be brought down by firing a flare signal of a pre arranged colour , as a German barrage tended to cut the telephone lines . A pre @-@ registered barrage would then descend on No Man 's Land .

With the introduction of the tank the artillery was no longer required to aid the infantry by destroying obstacles and machine gun positions . Instead , the artillery assisted by neutralising the German artillery with Counter battery fire . British Army researchers under Lieutenant William Lawrence Bragg developed sound ranging , a method of determining the location of hostile artillery from the sound of its guns firing . A Counter Battery Staff Officer (CBSO) was appointed at each corps to co @-@ ordinate the counter battery effort , collating reports from sound ranging and Royal Flying Corps observers . By the end of the war , it was realised that the important effect of the barrage was to demoralise and suppress the enemy , rather than physical destruction ; a short , intense bombardment immediately followed by an infantry assault was more effective than the weeks of grinding bombardment used in 1916 .

The Royal Engineers Signal Service , formed in 1912 , was given responsibility for communications that included signal dispatch , telegraph , telephone and later wireless communications , from army headquarters to brigade and down to battery level for the artillery . For most of the war , the Army 's primary methods of communication were signal dispatch (employing runners , messengers on horseback , dogs , and carrier pigeons) , visual signalling , telegraph , and telephone . At the start of the war , the Army had a small number of wireless sets , which in addition to being heavy and unreliable , operated on longwave . In 1915 , trench wireless sets were introduced , but the transmissions were easily intercepted by the listening Germans .

Civilian telephones were used at the outset of the war , but they were found to be unreliable in the damp , muddy conditions that prevailed . Consequently , the field telephone was designed ; a device that operated with its own switchboard . Apart from voice communication , it featured a buzzer unit with a Morse code key , so that it could be used to send and receive coded messages . This facility proved useful when , in the midst of bombardment , exploding shells drowned out voice communication . The telephones were connected by lines that sustained continual damage as a result of shell fire and the movement of troops . The lines were generally buried , with redundant lines set in place to compensate for breakages .

The primary types of visual signalling were Semaphore flags , lamps and flags , lamps and lights , and the heliograph . In open warfare , visual signalling (employing signal flags and the heliograph) was the norm . A competent signaller could transmit 12 words a minute with signal flags (during daylight) and signal lights (at night) . Signal lights , which were secured in a wooden case , employed a battery @-@ operated Morse code key . These signalling techniques had certain disadvantages , however . In trench warfare , operators using these methods were forced to expose themselves to enemy fire ; while messages sent to the rear by signal lights could not be seen by enemy forces , replies to such messages were readily spotted , and operators were , once again , exposed to enemy fire .

During the war , the Army also trained animals for use in the trenches . Dogs carried messages ; horses , mules and dogs were used to lay telephone and telegraph cables . Carrier pigeons , who transported messages back from the front line , were also carried in tanks so that they could deliver messages during an attack . Over 20 @,@ 000 pigeons and 370 handlers were used during the war , and at times , they were the sole means of communication .

= = = Royal Flying Corps = = =

At the start of the war , the Royal Flying Corps (RFC) in the Field , commanded by Sir David Henderson consisted of five squadrons ? one observation balloon squadron (RFC No 1 Squadron) and four aeroplane squadrons (Nos 2 , 3 , 4 and 5) . These units were first used for aerial spotting on 13 September 1914 , but only became efficient when they perfected the use of wireless communication at Aubers Ridge on 9 May 1915 . Aerial photography was attempted during 1914 , but again , it only became effective the following year . In August 1915 , General Hugh Trenchard replaced Henderson . The British use of air power evolved during the war , from a reconnaissance force to a fighting force that attempted to gain command of the air above the trenches and carry out bombing raids on targets behind the line . The early aircraft of the RFC were inferior to their German rivals ; in April 1917 , (known as Bloody April) , the RFC lost over 300 aircrew and 245 aircraft . Not until late 1917 , with the introduction of the Sopwith Camel and the S.E.5 , were they able to compete successfully for control of the air .

On 17 August 1917, General Jan Smuts presented a report to the War Council concerning the future of air power. Given its potential for the 'devastation of enemy lands and the destruction of industrial targets and centres of population on a vast scale '. He recommended a new air service be formed that would be on a level with the Army and Royal Navy. The formation of the new service, however, would make use of the under @-@ utilised men and machines of the Royal Naval Air Service (RNAS), as well as ending the inter @-@ service rivalries that at times had adversely

affected aircraft procurement . On 1 April 1918 , the RFC and the RNAS were amalgamated to form a new service , the Royal Air Force (RAF) . The RAF was under the control of the equally new Air Ministry . By 1918 , photographic images could be taken from 15 @,@ 000 ft (4 @,@ 600 m) and interpreted by over 3 @,@ 000 personnel . Planes did not carry parachutes until 1918 , though they had been available since before the war . After starting with some 2 @,@ 073 personnel in 1914 , the RAF had 4 @,@ 000 combat aircraft and 114 @,@ 000 personnel by the beginning of 1919 .

= = = Corps of Royal Engineers = = =

On 1 August 1914, the Royal Engineers consisted of 25 @,@ 000 officers and men in the regular army and reserves; by the same date in 1917, it had grown to a total of 250 @,@ 000. In 1914, when the BEF arrived in France, there were two Engineer field companies attached to each infantry division, which was increased to three companies by September 1914. Each division also had a Signals company, which was responsible for communications between Corps, Division and Brigade headquarters.

Royal Engineer tunnelling companies were formed in response to the German blowing of 10 small mines in December 1914, at Givenchy. The first British mine was detonated at Hill 60 on 17 February 1915. Mining was used increasingly during the Battle of Aubers Ridge in May 1915, and the battle of Loos in September 1915. In July 1916, on the first day of the battle of the Somme, what became known as the Lochnagar Crater was created by a mine at La Boisselle.

Twenty @-@ one companies were eventually formed and were employed digging subways, cable trenches, Sapping, dugouts as well as offensive or defensive mining. At the end of the war, Engineers were directly responsible for maintaining buildings and designing the infantry front @-@ line fortifications and artillery positions, the telephones, wireless and other signalling equipment, railways, roads, water supply, bridges and transport. They also operated the railways and inland waterways.

= = = Machine Gun Corps = = =

In September 1915 , the Machine Gun Corps (MGC) was formed to provide heavy machine @-@ gun teams after a proposal was made to the War Office for the formation of a single specialist machine @-@ gun company for each infantry brigade ? a goal to be achieved by withdrawing guns and gun teams from the battalions . Created in October 1915 , the MGC consisted of infantry machine @-@ gun companies , cavalry machine @-@ gun squadrons and motor machine @-@ gun batteries . In the trenches , the Corps ' guns were deployed with an interlocking field of fire and proved to be a devastating defensive weapon against attacking infantry . They were also used in an indirect fire support role , in which they fired over the heads and from the flanks of the advancing infantry and behind the German trenches to stop reinforcements and supplies from getting to the front .

= = = Tank Corps = = =

The Tank Corps was formed as the Heavy Section Machine Gun Corps in 1916. Tanks were used for the first time in action in the battle of the Somme on 15 September 1916. The intention being that they would crush the barbed wire for the infantry, then cross the trenches and exploit any breakthrough behind the German lines. In November 1916, they were renamed the Heavy Branch MGC and in June 1917, the Tank Corps.

Originally formed in Companies of the Heavy Branch MGC, designated A, B, C and D; each company of four sections had six tanks, three male and three female versions (artillery or machine guns), with one tank held as a company reserve. In November 1916, each company was reformed as a battalion of three companies, with plans to increase the Corps to 20 battalions, each Tank Battalion had a complement of 32 officers and 374 men.

Tanks were primarily used on the Western Front . The first offensive of the war in which tanks were

used en masse was the battle of Cambrai in 1917; 476 tanks started the attack, and the German front collapsed. At midday the British had advanced five miles behind the German line. The battle of Amiens in 1918 saw the value of the tank being appreciated; 10 heavy and two light battalions of 414 tanks were included in the assault. 342 Mark Vs and 72 Whippets were backed up by a further 120 tanks designed to carry forward supplies for the armour and infantry. By the end of the first day of the attack, they had penetrated the German line by 6? 8 mi (9 @.@ 7? 12 @.@ 9 km), 16 @,@ 000 prisoners were taken. In September 1918, the British Army was the most mechanised army in the world. Some 22 @,@ 000 men had served in the Tank Corps by the end of the war.

A detachment of eight obsolescent Mark I tanks was sent to Southern Palestine in early 1917 and saw action against Turkish forces there .

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= = = Army Service Corps = = =
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The Army Service Corps (ASC) operated the transport system to deliver men , ammunition and matériel to the front . From 12 @,@ 000 men at the start of the war , the Corps increased in size to over 300 @,@ 000 by November 1918 . In addition they had under command Indian , Egyptian , Chinese (Chinese Labour Corps) and other native labourers , carriers and stores men . They provided horsed and mechanical transport companies , the Army Remount Service and ASC Labour companies . In August 1914 , they delivered 4 @,@ 500 @,@ 000 lb (2 @,@ 000 @,@ 000 kg) of bread to the front which increased to 90 @,@ 000 @,@ 000 lb (41 @,@ 000 @,@ 000 kg) by November 1918 .

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= = = Royal Army Medical Corps = = =
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The Royal Army Medical Corps (RAMC) supplied the doctors , casualty evacuation , field ambulances and hospitals for the army . The Corps was assisted in its work by voluntary help from the British Red Cross , St John 's Ambulance and the Friends Ambulance Unit .

The only person to be awarded the Victoria Cross twice during the war was a doctor in the RAMC, Captain Noel Godfrey Chavasse, VC and Bar, MC.

While not strictly a member of the RAMC, stretcher bearer Lance Corporal William Harold Coltman VC, DCM & Bar, MM & Bar, was the most decorated other rank of the war.

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= = Life in the trenches = =
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By the end of 1914 , the war on the Western Front had reached stalemate and the trench lines extended from the Belgian coast to the Swiss frontier . By September 1915 , the length of the British front line stretched some 70 mi ($110 \ \text{km}$) . Soldiers were in the front or reserve line trenches for about eight days at a time , before being relieved .

There were three trenches in a typical front line sector; the fire trench, the support trench and the reserve trench, all joined by communication trenches. The trenches varied in depth, but they were usually about four or five feet deep, or in areas with a high water table a wall of sandbags would be built to allow the defenders to stand upright, fire trenches were provided with a fire step, so the occupants could return fire during an attack (see diagram). Ideally, the bottom of the trench was lined with duckboards to prevent men from sinking into the mud and dugouts were cut into the walls, these gave shelter from the elements and shrapnel, although in the British Army dugouts were usually reserved for the officers and senior NCOs. The men were then expected to sleep wherever they could and in wet weather they lived under groundsheets or in tents at the bottom of the trench on the duckboards.

At the front , soldiers were in constant danger from artillery shells , mortar bombs and bullets and as the war progressed they also faced aerial attack . Some sectors of the front saw little activity throughout the war , making life comparatively easy . Other sectors were in a perpetual state of violent activity . However , quiet sectors still amassed daily casualties through snipers , artillery fire and disease . The harsh conditions , where trenches were often wet and muddy and the constant

company of lice and rats which fed on unburied bodies , often carried disease . Many troops suffered from trench foot , trench fever and trench nephritis . They could also contract frostbite in the winter months and heat exhaustion in the summer . The men were frequently wet and extremely muddy , or dry and exceedingly dusty . Food could not usually be cooked in the front line trenches as any smoke would draw enemy fire , hot food had to be carried along communication trenches in clumsy "hayboxes " , sometimes arriving late or not at all .

= = = Daily routine = = =

Daily routine of life in the trenches began with the morning 'stand @-@ to '. An hour before dawn everyone was roused and ordered to man their positions to guard against a dawn raid by the Germans . With stand @-@ to over , it was time for the men to have breakfast and perform ablutions . Once complete , the NCOs would assign daily chores , before the men attended to the cleaning of rifles and equipment , filling sandbags , repairing trenches or digging latrines . Once the daily tasks had been completed the men who were off @-@ duty would find a place to sleep . Due to the constant bombardments and the sheer effort of trying to stay alive , sleep deprivation was common . Soldiers also had to take it in turns to be on sentry duty , watching for enemy movements

Each side 's front line was constantly under observation by snipers and lookouts during daylight; movement was therefore restricted until after the dusk stand @-@ to and night had fallen. Under the cover of darkness, troops attended to vital maintenance and resupply, with rations and water being brought to the front line, fresh units swapped places with troops moving to the rear for rest and recuperation. Trench raiding was also carried out and construction parties formed to repair trenches and fortifications, while wiring parties were sent out to repair or renew the barbed wire in no man 's land. An hour before dawn, everyone would stand @-@ to once more.

= = = Moving into the front line = = =

A set procedure was used by a division that was moving into the front line . Once they had been informed that they were moving forward , the brigadiers and battalion commanders would be taken to the forward areas to reconnoitre the sections of the front that were to be occupied by their troops . Meanwhile , the battalion transport officers would be taken to the headquarters of the division that they were relieving to observe the methods used for drawing rations and ammunition , and the manner in which they were supplied to the troops at the front . Detachments from the divisional artillery group would move forward and were attached to the artillery batteries of the division they were relieving . Five days later , the infantry battalions that were destined for the front line sent forward their specialists from the Lewis gun teams , and the grenade officer , the machine gun officer , the four company commanders , and some of the signallers to take over the trench stores and settle into the trench routine before the battalions moved in . Overnight , the battalions would move into the line , and the artillery would take over the guns that were already in position , leaving theirs behind to be taken over by the batteries that had been relieved .

= = Discipline = =

= = = Legal authority = = =

The Army was ultimately under political authority. Since the Glorious Revolution of 1688 the Crown has not technically been permitted a standing army in the United Kingdom? it derives its existence from the Army Act, passed by Parliament each year (every five years since the late 1950s). The House of Commons took these responsibilities seriously: a letter from Haig clarifying the position on shell @-@ shock had to be read out in the House of Commons on 14 March 1918. Most disciplinary regulations in World War One derived from the 1881 Army Act, although some offences were more

severely dealt with on active service, e.g. in principle looting or wilful disobedience carried the death penalty.

= = = Lesser offences = = =

Lesser offences were dealt with by commanding officers. For petty offences, a company commander could have men fined or confined to barracks for fatigue duty A battalion Commanding Officer could give detention, order up to 28 days Field Punishment, or demote corporals to the ranks (officers and senior NCOs were dealt with by court martial other than for very trivial offences). Enlisted men could also lose leave or seniority.

Field punishment (FP) had replaced flogging (abolished at home in 1868 and on active service in 1881, although still used in military prisons until 1907). FP No.1 (in which the man was shackled to fixed object, e.g. a large wheel) was awarded to 60 @,@ 210 cases, equivalent to one man in 50 (although in practice there were many repeat offenders). FP No.1 could be very unpleasant depending on the weather, was abhorred by some as barbaric, and in some units was ritualised (e.g. by locking a man in a shed and throwing the handcuffs in with him); there were also cases of Australian troops releasing British troops whom they found tied up, although in other units it was regarded as a necessary sanction for serious offences. FP No.2 meant that a man was shackled but not fixed in place.

Striking an inferior was an offence but it was not uncommon in some units for officers to turn a blind eye to NCOs keeping discipline by violence, or even to do so themselves.

= = = Courts martial = = =

Men who committed serious offences were tried by Field General Court Martial , sometimes resulting in execution . Despite " assertions " that these were " kangaroo courts " (e.g. in the book " Shot at Dawn " which says that men " did not receive even the rudiments of a just hearing ") the release of records in 1990 @-@ 4 showed this to be untrue . They in fact had strict rules of procedure and a duty to uncover the facts . Unlike a General Court Martial in peacetime , there was no legally qualified Judge @-@ Advocate to advise the court , but from the start of 1916 a " Court Martial Officer " ? usually an officer with legal experience in civilian life ? was often present to do so .

The accused was entitled to object to the composition of the panel (e.g. if one of the officers was connected with the case or enjoyed a poor relationship with the accused) and to present his case, defended by an officer (a "Prisoner's Friend") if he chose, although "Prisoners Friends" became more common as the war went on. The officer who convened a court martial could not sit on it, and the most junior officer voted first (to lessen the chance of his deferring to a superior 's opinion). However, the courts were explicitly intended to be "speedy" and were sometimes encouraged by higher authority to make an example of certain offences, and in practice the leniency of the court and the ability of the accused to defend himself varied widely. Some pleaded guilty or chose not to present a defence or call witnesses, and in most cases the offence was "so blatant that little defence could be put forward".

Eighty @-@ nine per cent of courts martial returned a guilty verdict, the vast majority of cases being for offences such as Absence Without Leave (the most common offence), drunkenness and insubordination. Terms of imprisonment were often suspended, to discourage soldiers from committing an offence to escape the front lines, but also to give a convicted man a chance to earn a reprieve for good conduct.

Of the 252 officers tried, 76 per cent were found guilty, the most common offence (52 per cent of cases) being drunkenness. Although three officers were executed, an officer was most likely to receive a severe reprimand (60 per cent of cases? a severe blow to his career) or be cashiered (30 per cent of cases? stripped of his commission, which brought total social disgrace and barred him from any employment under the Crown, even working for the local council? but a cashiered officer could still be conscripted as a private to a different unit).

A death sentence had to be passed unanimously , and confirmed in writing by various officers as the verdict passed up the chain of command . A man 's battalion and brigade commander tended to comment on his own record , but senior generals tended to be more concerned with the type of offence and the state of discipline in that unit . The Judge Advocate General at GHQ also checked the records for irregularities , before final confirmation (or otherwise) by the Commander @-@ in @-@ Chief of the relevant theatre .

Of the 3 @,@ 080 men sentenced to death, 346 men were actually executed, the vast majority of these (266) for desertion, the next largest reasons for execution being murder (37 ? these men would probably have been hanged under civilian law at the time) and cowardice (18). Convictions for mutiny were rare ? only one man was shot for the Etaples disturbances in 1917. Of the men shot, 91 were already under a previous suspended sentence, and nine under two sentences. Of the 91, 40 were already under a suspended death sentence, 38 of them for desertion, and one man had already been "sentenced to death" twice for desertion.

It was felt at the time that, precisely because most soldiers in combat were afraid, an example needed to be made of men who deserted . Front line soldiers also sometimes felt that those who left their mates " in the lurch " by deserting " deserved to be shot " . One historian writes that there is " virtually no evidence " that soldiers thought the death penalty unjust, although another writes that some soldiers deplored the death penalty, while most thought it justified. Desertion normally meant an absence of 21 days or other evidence to indicate intent of not returning, e.g. wearing civilian clothes or failing to report for a key deployment. Those executed were normally not boys? the average age was in the mid @-@ twenties and 40 percent had been in serious trouble before . Thirty percent were regulars or reservists, 40 percent were Kitchener volunteers, 19 percent were Irish, Canadian or New Zealand volunteers, but only nine percent were conscripts, suggesting indulgence to the conscripts, many of them under 21, who made up the bulk of the army by late in the war. Only executed men 's records survive, so it is hard to comment on the reasons why men were reprieved, but it has been suggested that the policy of commuting 90 percent of death sentences may well have been deliberate mercy in the application of military law designed for a small regular army recruited from the rougher elements of society. Only 7 @,@ 361 of the 38 @,@ 630 desertions were in the field. Most were away from the front line? 14 of the executed deserters were arrested in the United Kingdom? and many deserters had never served in the front line at all. In the latter part of the war, executed men's families were usually told white lies by the authorities; their families received pensions and were buried in the same graves as other dead soldiers.

Death for desertion was abolished in 1930 over objections in the House of Lords from Lords Allenby and Plumer , two of the most distinguished British commanders of World War One ; calls for its restoration in World War Two were vetoed on political grounds .

By contrast , of 393 men sentenced to death for falling asleep on sentry duty in all theatres in World War I , only two were executed (sentries were usually posted in pairs to keep one another awake ; these two , who served in Mesopotamia , were made an example of because they were found sitting asleep together , suggesting that they had colluded) .

Australians made up seven percent of the British Expeditionary Force but 25 percent of deserters, while an Australian was nine times more likely to be imprisoned than a British soldier. Haig asked for permission to shoot Australians, but their government refused.

British discipline of the First World War was not especially severe compared to most other armies of the time (e.g. the Russians and Italians). The French admitted to only 133 executions and the Germans 48, but these figures may not be reliable as both armies had problems with discipline.

= = = Shell shock and pardons = = =

At the time Posttraumatic stress disorder (known as "shell shock because it was initially wrongly thought to be caused by concussion damage to the membranes of brain) was beginning to be

recognised and was admissible in defence? it was classified as a war injury, although there were concerns that soldiers accused of offences tried falsely to claim shell shock as a defence. One historian writes that " in no case was a soldier whom the medical staff certified as suffering from shell shock actually executed ", that " there appear to have been very few cases where men who alleged shell shock, but whose claim was denied, were actually executed ", and that the suggestions of modern campaigners that most of the executed men suffered from shell shock are " palpably untrue ". However, another historian has pointed out that there was a great deal of chance in whether a soldier 's claim of shell @-@ shock would be taken seriously, and gives examples of soldiers being given cursory medical examinations or none; specific references to shell @-@ shock are uncommon, and records usually refer to dizziness, " queer turns ", bad nerves etc. Such trauma was still poorly understood at that time.

There were enquiries in 1919 , 1922 , 1925 and 1938 , which examined documents now lost and witnesses now dead . The books " For the Sake of Example " (1983) by Babington and " Shot at Dawn " (1989) by Sykes & Putkowski were openly intended to start a campaign for pardons . This campaign was rejected in February 1993 because there was no evidence of procedural error (i.e. they had been correctly convicted according to the law at the time) and it was felt not right to impose modern values on to the past . The case was rejected again in 1998 after a detailed two @-@ year review , which found " no white cases , very many black cases and a handful of grey cases " in which medical evidence was ignored or not called . The decisions were reversed by the Government in 2006 and all men given pardons and recognised as victims of World War I. However , their sentences were not overturned as it was impossible after this length of time to re @-@ examine the evidence in every case .

= = = Other discipline = = =

It has been pointed out that we have only anecdotal accounts, but no figures, for men who were shot on the spot by officers and NCOs for " cowardice in the face of the enemy ".

There were over 13 @,@ 000 Royal Military Police (? redcaps?). They were unpopular, at a time when the police were often unpopular with young men from big cities. Besides policing, a large part of their job was maintaining discipline on the march and keeping roads running smoothly, and collecting stragglers from a battle. During the March 1918 retreat 25 @,@ 000 stragglers were rounded up and sent back to fighting units. Royal Military Police also fought on occasion if headquarters areas were threatened by an enemy advance. Although soldiers sometimes told lurid tales of men who refused to fight being shot by Military Police, no reliable first @-@ hand accounts exist of this happening.

There were occasional examples of men making unwanted homosexual advances , homosexuality being then criminal under both military and civil law , to escape the front lines , but prosecutions for this crime were rare , and there is also evidence of men turning a blind eye to homosexual relationships .

= = = Positive motivation = = =

Men were also motivated by positive means . New medals were instituted : the Military Cross was created in December 1914 for warrant officers and officers up to captain , the Military Medal for enlisted men in March 1916 (although to the regret of some men , it did not carry a cash bounty like the Distinguished Conduct Medal) . The Order of the British Empire (of which the MBE is one grade) was instituted in 1917 . By 1918 , medals for bravery were often awarded within a week to ensure that the man lived long enough to receive it .

Race meetings, concert parties (including drag acts? good drag queens were in great demand), trips to the seaside and football matches were organised to keep men entertained. There were various unofficial publications, including the? Wipers Times?? these give an insight into the views of ordinary soldiers and junior officers. Overt patriotism was rare, and politicians such as (Prime Minister) Asquith and Ramsay MacDonald (an opponent of the war, later Labour Prime Minister)

were satirised.

= = Western front = =

Under the command of Field Marshal Sir John French , the BEF began to deploy to France within days of the declaration of war . The first encounter with the Germans came at Mons on 23 August 1914 , after which the Allies began the Great Retreat , the BEF was involved in the battle of Le Cateau . The BEF had a small role in halting the German advance at the Marne , before participating in the Aisne counter @-@ offensive , in September which was followed by a period known as the "Race to the Sea " during which the BEF redeployed to Flanders .

For the BEF , 1914 ended with "First Ypres" which marked the beginning of a long struggle for the Ypres salient . British casualties in the fighting between 14 October and 30 November were 58 @,@ 155 (7 @,@ 960 dead , 29 @,@ 562 wounded and 17 @,@ 873 missing) . It is often said that the pre @-@ war professional army died at the first battle of Ypres . The army had arrived in France with 84 @,@ 000 infantry . By the end of the battle , the BEF had suffered 86 @,@ 237 casualties , mostly to the infantry .

Trench warfare prevailed in 1915, and the BEF? as the junior partner on the Western Front? fought a series of small battles, at times coordinated with the larger French offensives, like the battle of Neuve Chapelle which is always associated with the shell crisis, the battle of Aubers Ridge, the battle of Festubert in May and the battle of Givenchy in June. On 22 April 1915, the Germans launched the second battle of Ypres, employing poison gas for the first time on the Western Front and capturing much of the high ground that ringed the salient. By September 1915, the British Army had grown with the first of Kitchener 's New Army divisions entering the line, and as part of the third battle of Artois, the army launched a major attack, the battle of Loos, utilising its own newly developed chemical weapons for the first time. The resulting failure marked the end for Field Marshal French. On 19 December 1915, General Sir Douglas Haig replaced him as Commander @-@ in @-@ Chief of the BEF.

For the British Army , 1916 was dominated by the battle of the Somme which started disastrously on 1 July . The first day on the Somme remains the bloodiest day in the history of the British Army when over 19 @,@ 000 soldiers were killed and nearly 40 @,@ 000 were wounded , all for little or no gain . The only real success was in the south where , using imaginative tactics and helped by the French , the 18th (Eastern) Division and 30th Division took all their objectives , including Montauban , and the 7th Division captured Mametz . At Thiepval , the 36th (Ulster) Division seized the Schwaben Redoubt but was forced to withdraw because of lack of progress elsewhere . There followed nearly five months of attrition during which the Fourth Army of General Henry Rawlinson and the Fifth Army of General Hubert Gough advanced an average of 5 mi (8 @ .@ 0 km) at a cost of 420 @ ,@ 000 casualties .

In February 1917, the German Army began to withdraw to the Hindenburg Line and it was these formidable defences that elements of the British Army assaulted in the battle of Arras in April . For this battle, the British Prime Minister? David Lloyd George? had placed Haig and the BEF under the orders of new French Commander @-@ in @-@ Chief (Robert Nivelle), who planned a major French Army offensive in Champagne. When the battle officially ended on 16 May, British troops had made significant advances, but had been unable to achieve a major breakthrough at any point. Having failed to deliver a breakthrough, Haig now embarked on his favoured plan to launch an offensive in Flanders . In a successful preliminary operation , General Herbert Plumer 's Second Army seized the Messines ridge south of Ypres. The battle of Passchendaele, which began on 31 July 1917, was one of the harshest ordeals endured by British and Dominion troops during the war, with the battlefield reduced to a quagmire. It was not until 6 November that Passchendaele ridge was captured, by which time the British Army had sustained 310 @,@ 000 casualties. For the British Army, 1917 ended with the battle of Cambrai which demonstrated the potential of tanks operating en masse. The Third Army commander? General Julian Byng? planned an ambitious breakthrough and achieved an unprecedented advanced of 5 mi (8 @.@ 0 km) on the first day but lacked the reserves to either continue or consolidate. A German counter @-@ offensive succeeded

in recapturing most of the lost ground.

The final year of the war ? 1918 ? started with disaster and ended in triumph . On 21 March 1918 , German General Erich Ludendorff launched the Spring Offensive and the main weight of the first blow ? Operation Michael ? fell on the British Fifth Army of General Gough which was forced to retreat . In response to the crisis facing the Allies , French general Ferdinand Foch was made Supreme Commander for Allied forces on the Western Front , placing the BEF under his strategic direction . The next German attack came south of Ypres in the battle of the Lys river and here too the British Army fell back . Haig issued his famous Order of the Day , " With our backs to the wall and believing in the justice of our cause , each one of us must fight on to the end . " A third major German offensive , falling mainly on the French , was finally halted on the Marne in June 1918 . On 8 August 1918 , General Rawlinson 's Fourth Army launched the battle of Amiens which marked the start of the Hundred Days Offensive , the final Allied offensive on the Western Front . Over the following weeks , all five armies of the BEF went on the offensive from the Somme to Flanders . Fighting continued right up until the Armistice with Germany came into effect at 11 : 00 am on 11 November 1918 .

In the final offensive, the BEF captured 188 @,@ 700 prisoners and 2 @,@ 840 guns which was only 7 @,@ 800 prisoners and 935 guns less than those taken by the French, Belgian and American armies combined.

= = Other campaigns = =

= = = Ireland = = =

The Easter Rising was a rebellion staged in Ireland during Easter Week , 1916 . It was mounted by Irish republicans with the aims of ending British rule in Ireland and establishing an Irish Republic . Organised by the Military Council of the Irish Republican Brotherhood , the rising lasted from 24 ? 30 April 1916 . Members of the Irish Volunteers , joined by the smaller Irish Citizen Army , along with 200 members of Cumann na mBan , seized key locations in Dublin and proclaimed an Irish Republic independent of Britain .

Army reinforcements were moved into Dublin and , by 28 April , the 1 @,@ 600 rebels were facing 18 to 20 @,@ 000 soldiers , the rising was suppressed after seven days of fighting , its leaders were court martialled and executed . Easter Rising casualties were 450 killed , 2 @,@ 614 wounded , and nine missing , almost all in Dublin . The only significant action elsewhere was at Ashbourne , 10 mi ($16\ km$) north of Dublin . Military casualties were 116 dead , 368 wounded and 9 missing . The Irish and Dublin police forces had 16 killed and 29 wounded , 254 non @-@ combatant civilians died .

= = = Salonika = = =

A new front was opened in Salonika at the request of the Greek government , intending to support Serbian forces and oppose Bulgaria . The first troops of the British Salonika Army , arrived in Salonika in October 1916 , too late to prevent the Serbian Army from retreating into Albania and Greece . French , British and Russian troops arrived in Salonika between 1916 and 1917 and became known as the Allied Army of the Orient or Allied Army of the East , under the overall command of French General Maurice Sarrail .

With the objective of destroying the Bulgarian Army , the French and British launched a new offensive in April 1917 , without any significant success . A stalemate ensued without any movement by either side ; the front became known as Europe 's biggest internment camp for the Allies by the Germans . This situation lasted until 18 September 1918 , when the British and Greek Armies , under the command of General George Milne attacked in the Lake Doiran Sector . The Bulgarian Army ? now in retreat ? signed an armistice on 30 September 1918 .

Italy joined the war on the Allies 'side on 5 May 1915, declaring war on Austria @-@ Hungary on 23 May 1915 and on Germany on 28 August 1916. The British Army 's involvement in the Italian campaign did not start until late 1917, when troops were sent to help prevent a defeat on the Italian front. On 24 October 1917 in the battle of Caporetto the Second Italian Army collapsed and the Italians were forced to retreat to the Piave River, where they could be reinforced with five British and six French Divisions from the Western Front, complete with supporting arms and commanded by General Herbert Plumer. The reinforced Italians successfully managed to halt the Austro @-@ Hungarian advance at the battle of the Piave river. During the Allied counter @-@ attack in October 1918, the Austro @-@ Hungarian Army collapsed after taking heavy losses at the battle of Vittorio Veneto. An armistice was signed shortly afterwards on 3 November 1918.

= = = China = = = =

In 1914, the British Army was involved in what became known as the Siege of Tsingtao when the 2nd Battalion South Wales Borderers landed in China in support of Japanese forces in the capture of the German port of Tsingtao . The British were part of a 23 @,@ 000 @-@ strong task force which included a mixed British ? Indian Brigade of 1 @,@ 500 troops and the battleship HMS Triumph . A bombardment of the port started on 31 October 1914 , and by 7 November , the Japanese 18th Division , 29th Infantry Brigade and the British ? Indian Brigade , had stormed and captured the garrison and its 4 @,@ 000 troops .

= = = East Africa = = =

1914 also witnessed the commencement of the East African Campaign against von Lettow @-@ Vorbeck 's elusive German and African askari forces . Most British operations in Africa were carried out by African askari units such as the King 's African Rifles (KAR) , South African or Indian Army units . The British force was led , in turn , by General Horace Smith @-@ Dorrien , South African General Jan Smuts , and British General Arthur Reginald Hoskins . The force was composed of units of the KAR and the 27th Bangalore Brigade from the British Indian Army , with the 2nd Battalion , Loyal Regiment (North Lancashire) under command . The German forces of von Lettow @-@ Vorbeck 's Schutztruppe remained undefeated and surrendered on 25 November 1918 , 14 days after the Armistice in Europe .

The casualty rate amongst British and Empire troops , excluding the Africans , was 6 @,@ 000 dead and 3 @,@ 000 wounded . More troops died from diseases than from enemy action , and illness accounted for 70 % of the total casualties .

= = = Gallipoli = = =

Turkey had entered the war on the German side on 31 October 1914 . One of its first acts was to close the Dardanelles Straits to the Allies . In April 1915 , following the failure of the Royal Navy 's attempt to capture the Dardanelles , British and ANZAC forces landed on the Gallipoli peninsula , under the command of General Ian Hamilton . The main British attacks were the first , second and third battles of Krithia . These were a series of attacks against the Turkish defences aimed at capturing the original objectives of 25 April 1915 . They all failed to achieve their objectives . In August , another landing was made at Suvla Bay . The Suvla landing was reinforced by the arrival of the 10th Division from Kitchener 's New Army , 53rd , 54th first @-@ line Territorial divisions and the dismounted yeomanry of the 2nd Mounted Division . The 29th Division was also moved from Helles to Suvla for one more push . The final British attempt to resuscitate the offensive came on 21 August , with attacks at Scimitar Hill and Hill 60 . Control of these hills would have united the Anzac and Suvla fronts , but neither battle achieved success . When fighting at Hill 60 ceased on 29 August , the battle for the Sari Bair heights , and indeed , the battle for the peninsula , was effectively over ; by January 1916 , the Allies had withdrawn .

Estimates of casualties vary enormously, but of the around 480 @,@ 000 Allied troops involved in the campaign, 180 @,@ 000 were wounded and 44 @,@ 000 died, 20 @,@ 000 of the dead being British.

= = = Mesopotamia = = =

The British force fighting in Mesopotamia was principally drawn from the British Indian Army, with only one solely British formation, the 13th (Western) Division. Its objective was to secure the Royal Navy 's oil supply from Persia . On 7 November 1914, the British Indian force ? led by General Sir John Nixon? invaded Mesopotamia, and on 23 November, entered Basrah. After this initial invasion, there followed a disastrous and humiliating defeat for the British by the Turks at the Siege of Kut @-@ al @-@ Amara from 7 December 1915 ? 29 April 1916 , when the entire garrison of 13 @,@ 000 British and Indian troops surrendered. The British reorganised and raised the number of available troops to 250 @,@ 000. The British eventually regained momentum upon General Frederick Stanley Maude becoming commander, and a new offensive began in December 1916. On 24 February 1917, Kut @-@ al @-@ Amara fell to the joint British and Indian force, and Baghdad was captured in March 1917. A week after the capture of Baghdad, General Maude issued the Proclamation of Baghdad, which contained the famous line, " our armies do not come into your cities and lands as conquerors or enemies, but as liberators ". Lieutenant General Sir William Marshall succeeded Maude following the latter 's death from cholera on 18 November 1917. He continued with the River War until October 1918, when the British captured the Mosul oil fields, a development that led to the collapse of the Turkish forces. The Armistice of Mudros with Turkey was signed on 30 October 1918. During the campaign, 100 @,@ 000 British and Indian casualties were caused. Of these, 53 @,@ 000 died, with 13 @,@ 000 of the dead succumbing to disease.

= = = Sinai and Palestine = = =

The Sinai and Palestine Campaign was fuelled by criticism of the policy of a static defence of the Suez canal, which employed six infantry divisions and five mounted brigades. After the repulse of the Turkish First Suez Offensive, nine divisions were sent to the Western Front and one to Mesopotamia.

The British Army in the Sinai and Palestine subsequently included the 10th , 42nd , 52nd , 53rd , 54th , 60th , 74th and 75th divisions . British yeomanry formed part of the ANZAC Mounted Division , Australian Mounted Division and Yeomanry Mounted Divisions . With the Imperial Camel Corps Brigade , mounted troops formed the Desert Column . The whole force ? known as the Egyptian Expeditionary Force (EEF) ? was under the command of General Sir Archibald Murray in Cairo .

Murray made steady progress against the Turkish forces , which were defeated in the battles of Romani , Magdhaba and Rafa . However , he was repulsed at the first and second battle of Gaza in 1917 . The defeat in the Second Battle of Gaza prompted the War Office to change the command of the EEF , and on 28 June 1917 , Murray was replaced by General Sir Edmund Allenby , who reinvigorated the campaign .

Allenby reorganised his forces along more conventional lines . The EEF now included the Desert Mounted Corps , under Lieutenant General Sir Harry Chauvel ; XX Corps under Lieutenant General Sir Phillip Chetwode and XXI Corps under Lieutenant General Edward Bulfin . In October 1917 , they defeated the Turkish forces in the third battle of Gaza and the Battle of Mughar Ridge , which succeeded in causing the Ottoman Seventh and Eighth Armies to withdraw towards Jerusalem and Haifa respectively . This led to the capture of Jerusalem in December 1917 .

In February and April 1918, Australian mounted troops took part in two raids east across the Jordan River near Es Salt, a village in Palestine 14 mi (23 km) west of Amman. Although these raids were unsuccessful, they encouraged Turkish commanders to believe that the main British effort would be launched across the Jordan, when in fact it would be launched along the coastal plain. The EEF was greatly weakened at this time by the crisis in France, which led to the despatch of the 52nd and 74th Divisions to the Western Front, the breaking up of the Yeomanry Mounted

Division, and the replacement of most of the British infantry in four of the remaining divisions with Indian troops. In September 1918, Allenby 's forces won the decisive Megiddo Offensive, which precipitated the Armistice of Mudros with the Ottoman Empire, which was signed on 31 October 1918.

Total Allied casualties in the Sinai and Palestine campaign were 60 @,@ 000 of which 20 @,@ 000 were killed . Some 15 @,@ 000 of the dead were British .

= = = Persia = = =

Following the abdication of the Russian Tsar in 1917, the Caucasus Front collapsed, leaving Central Asia? and beyond it India? open to the Turkish Army. The War Office responded with a plan to send a force of hand @-@ picked British officers and NCOs to organise any remaining Russian forces or civilians who were ready to fight the Turkish forces. This force became known as Dunsterforce after its commander, Major General Lionel Charles Dunsterville, the inspiration for the titular character of Rudyard Kipling 's novel Stalky & Co... It arrived in Baku in August 1918. It was hoped that Dunsterforce could raise an army from the Christian Georgian, Armenian and Assyrian people who had supported the Russians and had historically feared the Turks. While Dunsterforce had some success the task proved beyond its ability.

= = = Fighting the Senussi Arabs = = =

In late November 1915, in response to the growing threat from a pro @-@ Turkish Islamic Arab sect known as the Senussi, a composite British body known as the 'Western Frontier Force' was sent into the Libyan Desert to Mersa Matruh, under the command of British Indian Army officer Major General Alexander Wallace. A series of sharp battles against the Arabs ensued at Um Rakhum, Gebel Medwa, and Halazin during December and January. The Western Desert Force, now under Major General William Peyton, re @-@ occupied Sidi Barrani and Sallum in February and March 1916. Shipwrecked British seamen from HMT Moorina and HMS Tara, who had been held at Bir Hakeim, were rescued by a contingent of armoured cars led by the Duke of Westminster

= = Aftermath = =

The British Army during World War I was the largest military force that Britain had put into the field up to that point. On the Western Front, the British Expeditionary Force ended the war as the strongest fighting force, more experienced than the United States Army and its morale was in better shape than the French Army.

The cost of victory , however , was high . The official " final and corrected " casualty figures for the British Army? including the Territorial Force? were issued on 10 March 1921 . The losses for the period between 4 August 1914 and 30 September 1919 included 573 @,@ 507 " killed in action , died from wounds and died of other causes " and 254 @,@ 176 missing (minus 154 @,@ 308 released prisoners of war) , for a net total of 673 @,@ 375 dead and missing . Casualty figures also indicated that there were 1 @,@ 643 @,@ 469 wounded .

For some , the fighting did not end in 1918 . The British Army dispatched troops to Russia during the Allied intervention in the Russian Civil War , which was followed by the Anglo @-@ Irish War in January 1919 and the Third Anglo @-@ Afghan War in May 1919 . The Third Afghan War was followed by the 1920 conflict between British forces and Somaliland dervishes . Those not involved in fighting or occupation duties were demobilised . The demobilisation of 4 @,@ 000 @,@ 000 men that followed the end of the war had , within a year , reduced the British Army to 800 @,@ 000 men ; by November 1920 , two years after the signing of the Armistice , this figure had fallen to 370 @,@ 000 men .

The Ten Year Rule was introduced in August 1919, which stipulated that the British Armed Forces should draft their estimates " on the assumption that the British Empire would not be engaged in any

great war during the next ten years " . In 1928 , Winston Churchill , as Chancellor of the Exchequer , successfully urged the Cabinet to make the rule self @-@ perpetuating and hence it was in force unless specifically countermanded . There were cuts in defence spending as a result of this rule , falling from £ 766 million in 1919 ? 1920 , to £ 189 million in 1921 ? 1922 , and to £ 102 million in 1932 .

The British Army tried to learn the lessons of the First World War , and adopt them into its pre @-@ war doctrine . In the 1920s , and much of the 1930s , the General Staff tried to establish a small , mechanised , professional army and formed the Experimental Mechanized Force but , with the lack of any identified threat , its main function reverted to garrison duties around the British Empire .