

Author

Stephen Johnson studied Classics and Archaeology at Oxford University, concentrating on Roman fortifications. He has written several books on Roman forts and Roman Britain, including one on Hadrian's Wall. He worked at English Heritage for over 13 years as an archaeologist, author and publisher.

Illustrator

Mark Bergin was born in Hastings, England, in 1961. He studied at Eastbourne College of Art and has specialised in historical reconstructions since leaving art school in 1983.

Series creator

David Salariya is an illustrator, designer and author. He is the founder of the Salariya Book Company, which specialises in the creation and publication of books for young people, from babies to teenagers, under its imprints 'Book House' and 'Scribblers'.

Editor

Karen Barker Smith

Editorial Assistant

Stephanie Cole

© The Salariya Book Company Ltd MMVIII

All rights reserved. No part of this publication may be reproduced, stored in or introduced into a retrieval system or transmitted in any form, or by any means (electronic, mechanical, photocopying, recording or otherwise) without the written permission of the publisher. Any person who does any unauthorised act in relation to this publication may be liable to criminal prosecution and civil claims for damages.

Published by Book House, an imprint of

The Salariya Book Company Ltd 25 Marlborough Place, Brighton BN1 1UB

Please visit the Salariya Book Company at: www.salariya.com

ISBN 978-1-905638-61-1

A CIP catalogue record for this book is available from the British Library.

Printed and bound in China.

Printed on paper from sustainable forests.

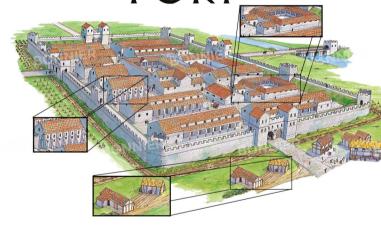
Reprinted in MMXVI.

CONTENTS

THE ROMAN EMPIRE	6
THE ROMAN ARMY	8
THE FORT LAYOUT	10
THE BARRACKS	12
FORT COMMANDER'S HOUSE	14
THE HEADQUARTERS	16
FORT DEFENCES	18
RELAXATION AND HYGIENE	20
THE MESS ROOMS	22
KEEPING A CLEAN FORT	24
PRACTICE MAKES PERFECT	26
ACTIVE SERVICE	28
THE SETTLEMENT	30
RELIGION	32
ENTERTAINMENT	34
THE GRANARIES	36
FORT SUPPLIES	38
DISCHARGE FROM MILITARY SERVICE	4(
TIMESPAN	42
GLOSSARY	44
INDEX	45



SUSTAINABLE FORESTS ANCIENT ROMAN FORT



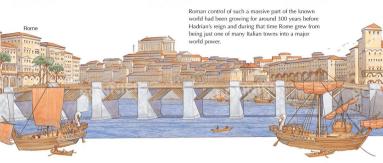
Written by Stephen Johnson

Illustrated by

Mark Bergin





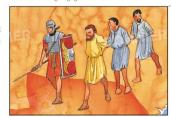


THE ROMAN EMPIRE

n the reign of the Emperor Hadrian, the Roman Empire circled the whole of the Mediterranean Sea and covered large areas of Europe, the near East and Africa. For those lands inside the Empire, it provided a stable and peaceful society, opportunities for trading goods of many kinds and, above all, security from attack because of its strong and permanent army. In the northern parts of Europe and towards Persia and Iran, the Empire faced real threats to its borders from hostile tribes or other kingdoms. In Africa, there were nomadic tribes who occasionally raided across the border. Troops were based in forts around the frontiers of the Empire to deal with hostile attacks. In some areas, the frontiers took different forms; a wall defended with forts was erected in Britain (Hadrian's Wall); rivers or wooden palisades were used in mainland Europe and in the near East, the frontier was a desert road watched over by a series of towers and small forts.

Frontier for Roman forts were concentrated mainly in the frontier zones of the Empire. They differed slightly in shape and style, but their layout and buildings were more or less the same.

Captured tribes from conquered nations were encouraged to live like Romans and even join the Roman army. Most of Rome's frontier troops were recruited locally and may once have been those fighting against Rome!









IOINING UP

The baggage wagons, carrying equipment and supplies, brought up the rear.

The auxiliaries and officers on horseback were led by the standard bearers and the auxiliary centurion.



ROMAN ARMY could make for a good career, but men had to sign on for 25

years' service.

Training was hard learning to fight the Roman way, working alongside colleagues and using weapons

correctly.

When a unit of new

recruits was posted abroad the only way to get there was to march, carrying all their



In a real battle, prisoners were captured and sent back to Rome to become slaves

senior officers.



There were around 500 men in a normal auxiliary cohort. An 1 Iron helmet covered in bronze infantry unit was divided into six centuries, each containing around 80 men (not 100 as the word 'century' implies). A legion 3 Chain mail tunic of 5-6,000 men was divided into 10 cohorts. Six centuries made up each cohort, commanded by an officer called a tribune. The

first cohort in every legion contained its best troops and most

Auxiliary soldier

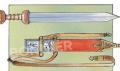
- 4 Sword, similar to legionary equipment
- 5 Shield, bearing emblems of the unit
- 6 Woollen trousers 7 Leather sandals



Next in line was the centurion leading the century under his command.

In front of the legionary centurion were the legion's standards and the commander's bodyguards. The legionary commander was in front.

Broad sword and scabbard



There was a great variety of weapons in the Roman army, but the most important was the broad sword (called the gladius). It was quite short and straight and made of sharpened steel. It was very effective, when used by soldiers in tight formation together, to stab and jab at opponents.

The two figures on these pages are an auxiliary soldier (left) and a legionary (right). Auxiliary soldiers were lightly armed and their main protection was chain mail which covered much of their bodies. Auxiliary units often carried special weapons, such as slings (for throwing stones) or bows and arrows. In a battle they provided support for the legionary troops.

The legionaries wore heavier armour of steel plates sewn onto a leather jacket. Their shields were rectangular and curved and could fit together to protect a line of troops advancing in battle. They carried a sword and a dagger, both of which were deadly at close quarters. The throwing spear was weighted so that the point would drive into an enemy. This legionary is shown with his equipment for a march.



Legionary soldier

- 1 Helmet with neck protector
- Spear or javelin Body armour of metal plates held together with leather straps
- 4 Kit bag 5 Cooking pan
- 6 Digging tool (dolabra) 7 Legionary sword with
- bone handle 8 Dagger
- 9 Woollen tunic under the armour
- 10 Shield 11 Sandals





Troop units were sent on duties all over the Boman Empire and this included sailing to Britain, a wild and cold



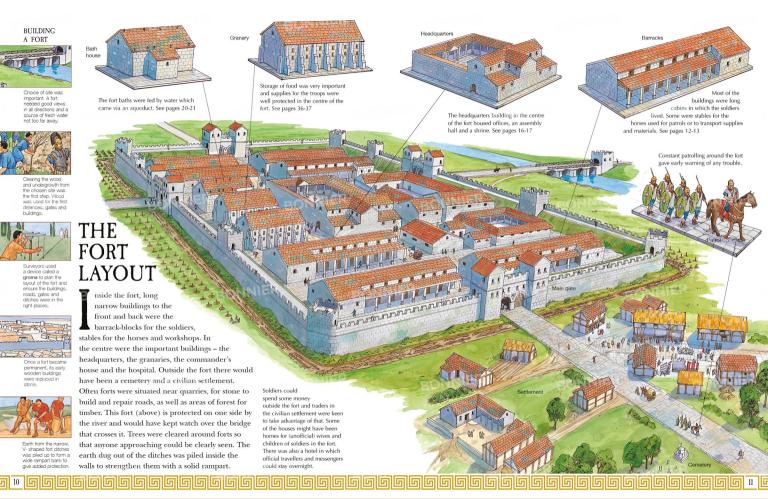
docked in northern Britain it was still a long march for soldiers posted to the frontier wall being built on Hadrian's orders.

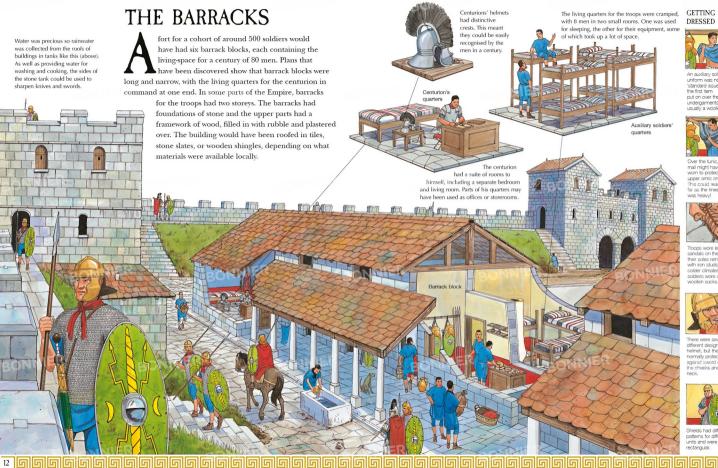


had to help build the fort in which they



The Roman army was also responsible for building the roads connecting the forts along Hadrian's Wall.







uniform was not 'standard issue', but the first item put on over the undergarments was usually a woollen tunic.



mail might have been worn to protect the upper arms and body This could reach as far as the knees and



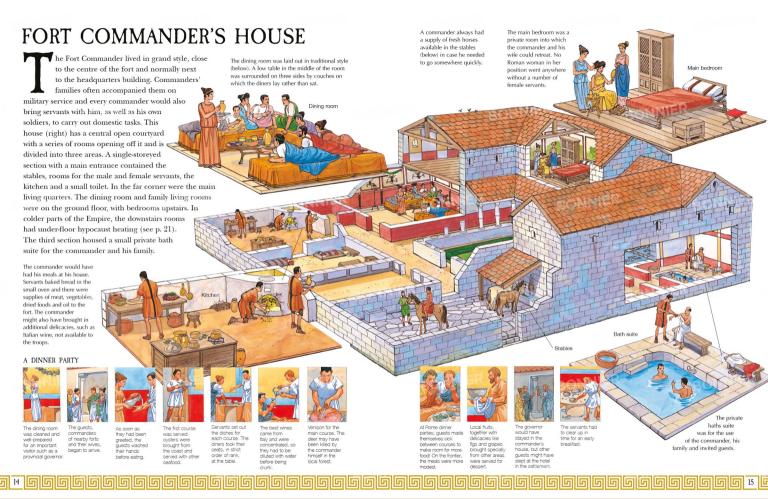
sandals on their feet their soles reinforced with iron studs. In colder climates, soldiers were chunky

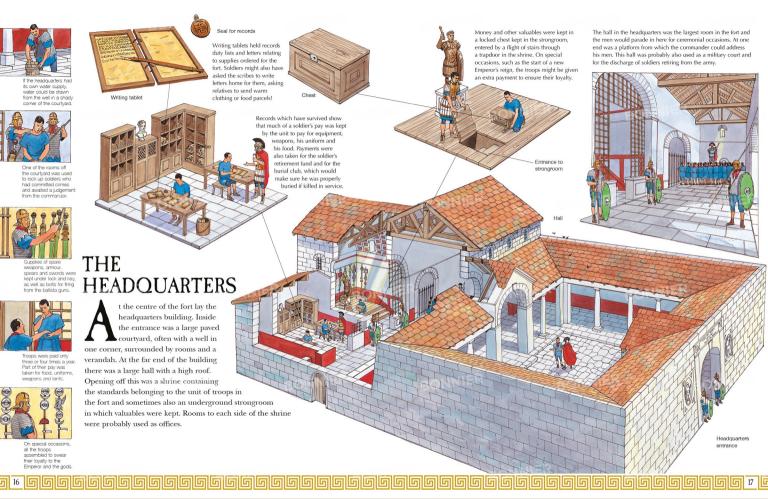


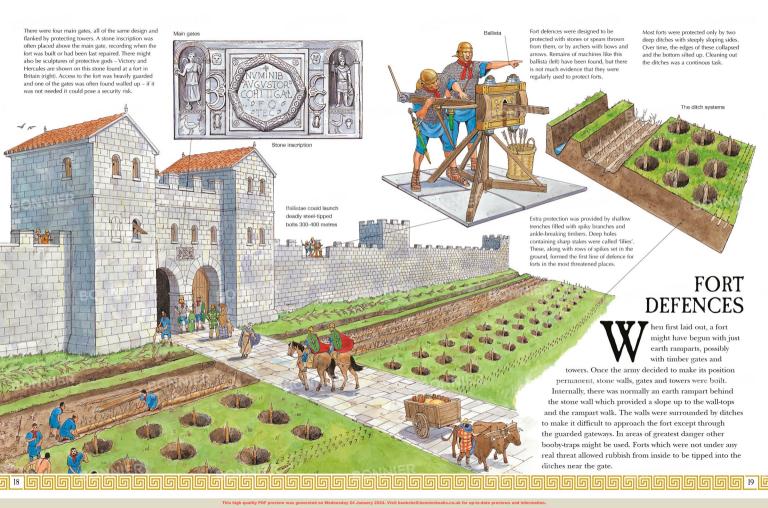
different designs of helmet, but they normally protected against sword cuts on the cheeks and the

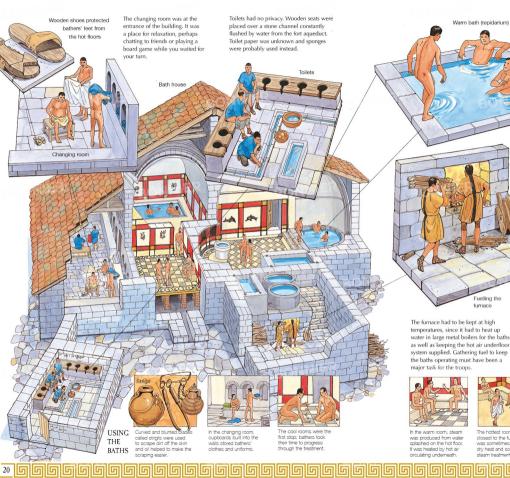


Shields had different patterns for different units and were oval or rectangular.









After going through a series of rooms heated to increasingly warm temperatures, bathers eventually reached the hottest room of all in which water was thrown on the floor to provide a steamy atmosphere. Nearby was a warm bath (tepidarium) where bathers soaked for a time, before going back into the hot room again. Only after completing the treatment did they return to the cold bath (frigidarium) close to the

RELAXATION AND HYGIENE

he baths were essential for the

comfort of the troops. Soldiers

kept clean by a combination of washing in large warm baths and by treatments in hot sweat rooms. After sweating, dirt could be removed by scraping their bodies with strigils - flat blunt blades. From the changing room, the bathers walked through a series of warm rooms, gradually increasing in heat, until cleansing had been completed. A plunge in colder water left bathers feeling completely refreshed. Crucial to the baths was a supply of fresh water and sufficient fuel to keep the furnace stoked to provide hot air for the underfloor heating systems.

HYPOCAUST HEATING



- and sometimes the living quarters of the commander's house had underfloor heating



Warm air from the furnace was directed under the tiled floor which was supported by pilars of bricks. The floors could get very hot.



the warm air also flowed through ducts in the lower part of the wall and came into the room itself.



the troops on duty. They probably needed to use the bath house themselves

after their world



Bathers cooled off in the warm rooms, where it was also possible to have a



A final plunge into a cold bath completed the treatment and left the bathers tingling!



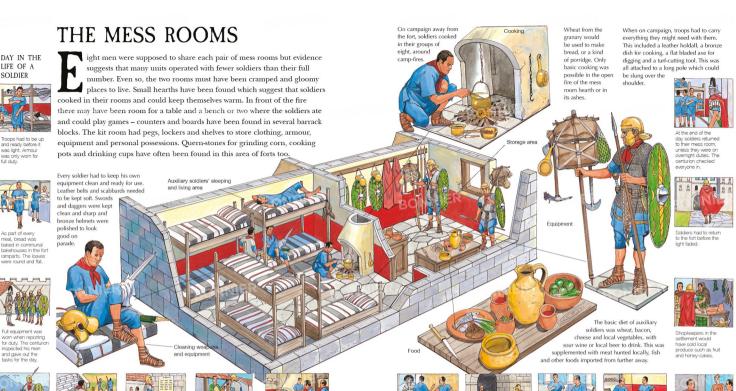
Fuelling the

furnace

Warm bath (tepidarium)

The hottest room was closest to the furnace and was sometimes used for dry heat and sometimes





Patrol duties meant keeping a close eve

inspected his men

and gave out the

DAY IN THE

and ready before it

was light, Armour

was only worn for

As part of every

meal, bread was

LIFE OF A

SOLDIER

on the countryside around the fort and watching for anything the parade ground. unusual.

Time off-duty gave a chance for slight relaxation. Weapons practice took place on

news and announcements of

were mended at the job assignments were



fort workshops, ready

The main meal of the day would have been something like bread with a stew of spiced lentils, onions and chunks of bacon



Guard duty on the main gate involved checking all the carts and wagons which



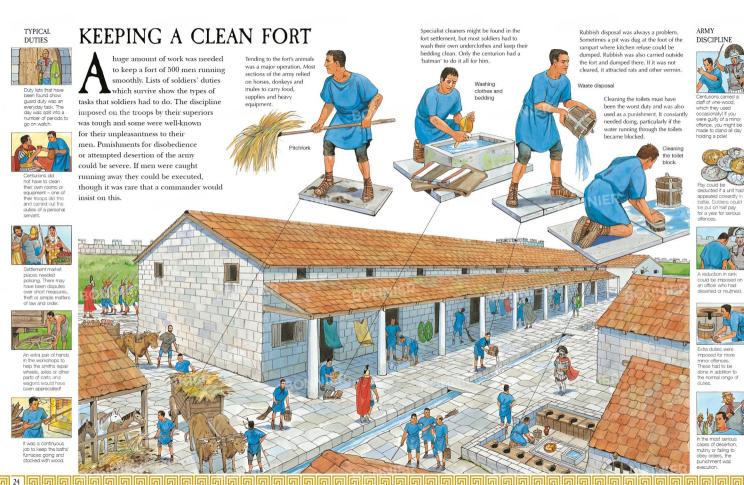
could go to the fort hospital to visit an injured colleague.

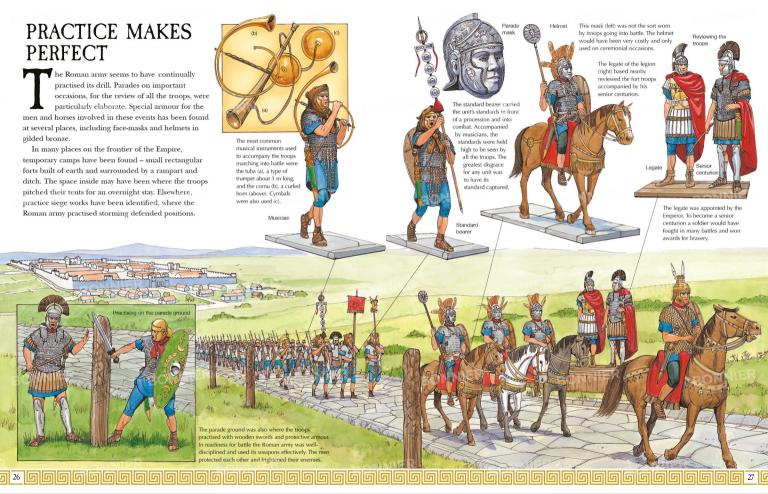


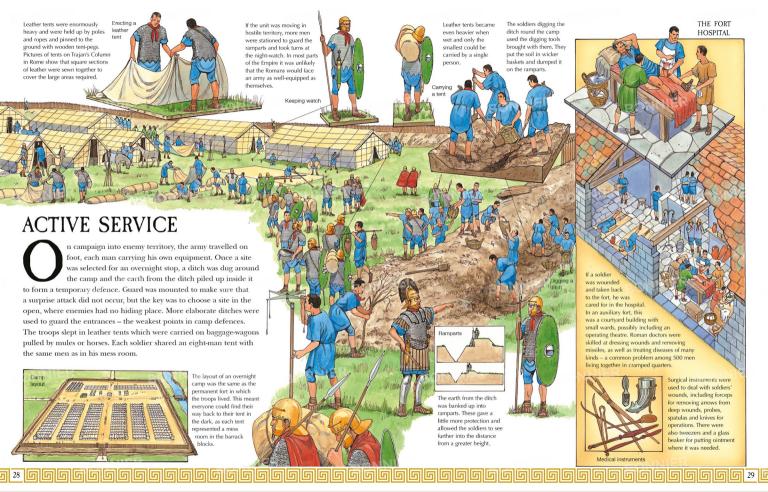
Letters could be written by the fort scribes. Soldiers sometimes wrote home to ask for warm winter underclothes to be sent

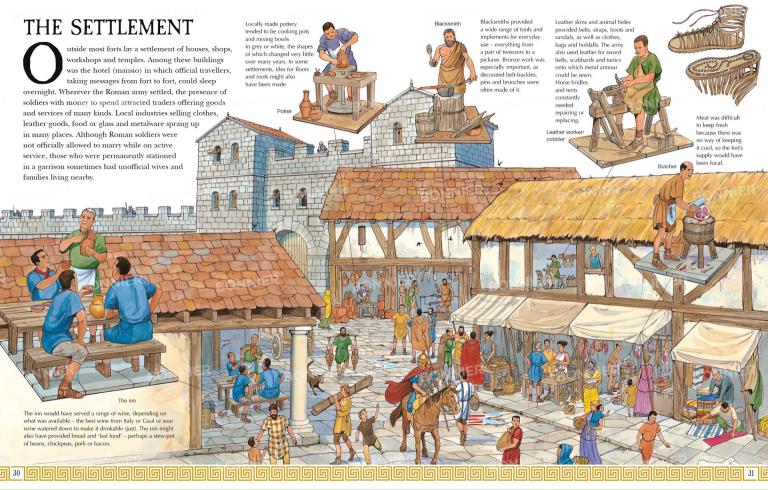


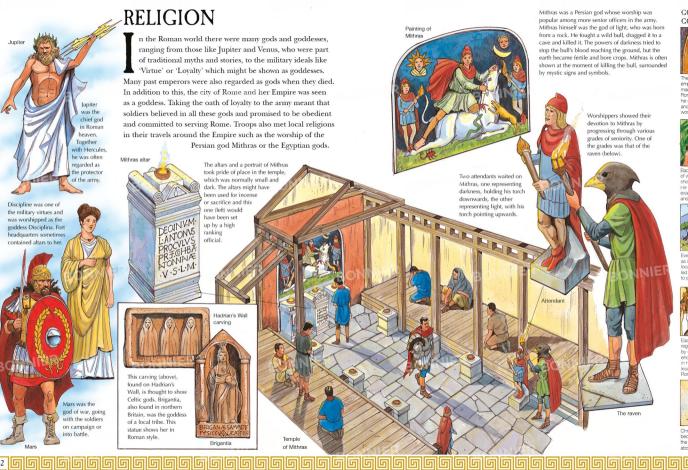
possible to visit the inn in the settlement selling beer and local













The first Roman emperor, Augustus, was made into a god by the Roman people when he died. Emperors past and present were all worshipped by the army.



Bacchus was the god of wine and was often shown enjoying a party. He encouraged the exact opposite of Virtue and Discipline!



Even local beliefs, such as in the goddess of a local spring, might have led the fort commander to put up an altar to her.



Eastern cults were regarded with suspicion by officers. They encouraged soldiers in non-Roman behaviour, lessering their loyalty to Rome and its emperors.



Christianity only became widespread in the Roman army after about AD 300.





Mock contests between soldiers dressed up as gladiators sharpened up combat skills and entertained spectators



Wild boars, deer, hares and various birds would have been hunted around the fort and formed a useful addition to the troops' diet.





A daily workout might have included some friendly wrestling between by a trip to the baths to clean up and relax!





Wrestling



Gambling on the results of chariot races

or fights between gladiators was popular

throughout the Empire. No doubt soldiers

found similar contests within the confines

of the fort on which to bet their pay.







Gaming boards

Mirnes and comedy were popular throughout the Roman world and visiting players may well have entertained soldiers.



At festival times everyone let their hair down. At the festival of Saturn it was the custom for servants to mimic their masters.

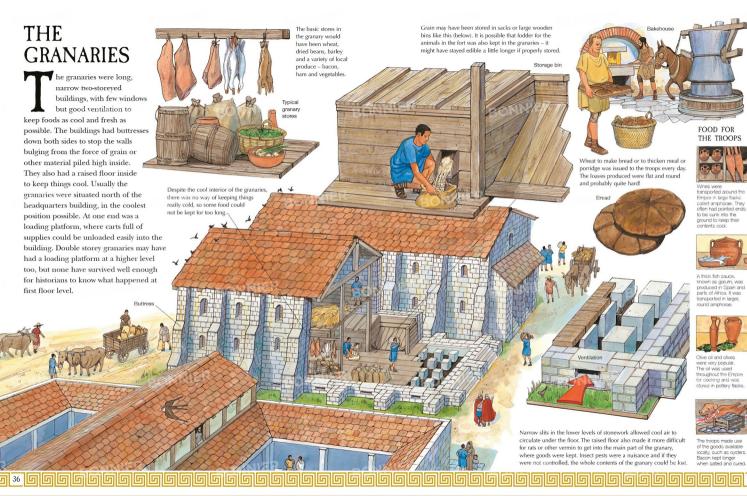


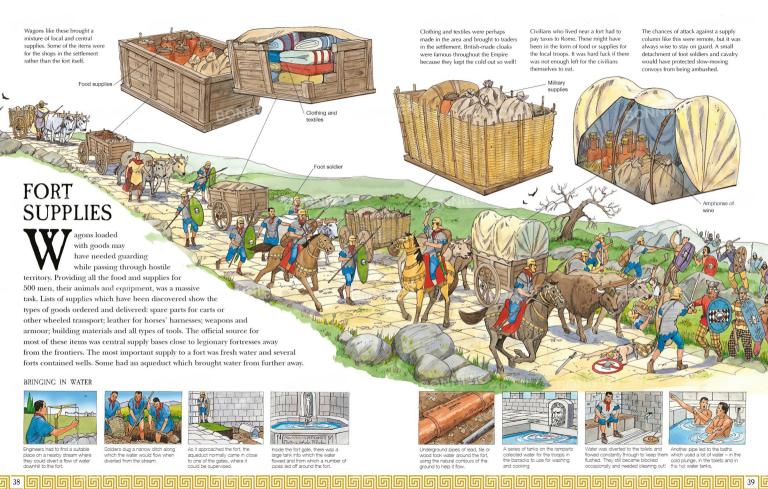
After visiting the inn, soldiers would be expected back in the fort in good time to be up for early morning



ENTERTAINMENT

here was probably not a lot of free time for soldiers in the Roman army. Very few, if any, of them could read or write and this would have limited their activities. Some soldiers would have spent time in the settlement, particularly if they had a family there. Others found a variety of ways to use spare time - the baths were a popular place to go, but few soldiers had much money to spend after all the stoppages from their pay were deducted. Amusements must have been limited and it is probable that officers did not allow their soldiers to stay idle for very long.









While on active service Roman soldiers were not allowed to marry, but once discharged they could have an official wife.



Former colleagues probably fived nearby, to remember past campaigns and triumphs with.



Many soldiers did not live long enough to complete their 25 years service – some were killed in action, others were struck by disease.



A discharged soldier children became Roman citizens, with all their rights, privileges and duties.



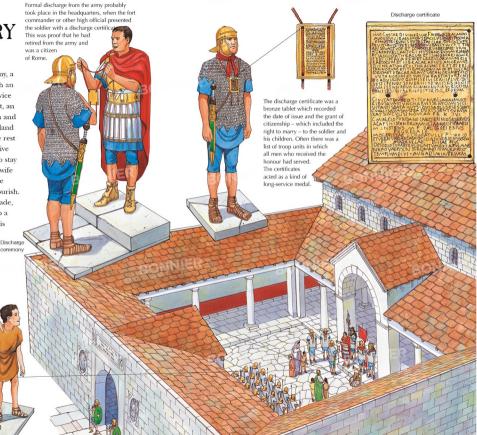
One of the most important things a Roman citizen could do was to leave his land and property to his children when he died.

DISCHARGE FROM MILITARY SERVICE

fter 25 years' service in the army, a Roman soldier could leave with an honourable discharge. His service to Rome was over. At this point, an auxiliary soldier became a Roman citizen and received either a small pension or some land on which to live and set up house for the rest of his life. Quite often soldiers chose to live near the fort in which they had served, to stay near former comrades, to live with their wife and children if they had any and help the settlement round the fort continue to flourish. A retired soldier skilled in a particular trade. like metalwork or carpentry, might set up a workshop in the settlement and add to his earnings that way.

The unofficial wives and children of Roman soldiers often lived near the fort. When their father was discharged from the army, a soldier's children were also granted Roman citizenship, although their 'wife' was not. They could then get officially married, of

Unofficial wife and children



A MILITARY BURIAL



After retirement at 45, soldiers might not have died for another



A funeral procession to the cemetery would have been attended by family, ex-colleagues and men from the fort.



From around AD 125 bodies were cremated before being buried, so the procession went first to the funeral pyre.



Ashes were placed in an urn and buried in a small grave in the cemetery.



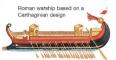
The burial club in the fort paid for a tombstone. It recorded the soldier's life and career in the army.

TIMESPAN

The earliest settlement at the site of Rome was a series of Iron Age huts, probably dating to the 8th century BC. For many years this settlement grew under the control of Etruscan kings, who controlled the area further north. Historians refer to two dates when discussing the beginnings of the city of Rome: 753 BC - the supposed foundation date of the city; and 509 BC, when the Etruscan kings were expelled.

All city states had to be able to defend themselves and Rome's early army was raised from the able-bodied men in the city. They were formed into units and companies based on the extent of their wealth - the richer they were, the more military service was required. Despite some serious defeats of this citizen army, Rome gradually became more powerful than its neighbours. This enabled the Romans to have what became a permanent paid army, something few other cities could afford.

509-260 BC By 500 BC, Rome was the capital of a small group of allied towns and states in central Italy. Over the next 250 years or so, this group was expanded through alliances, conquests and the establishment of Roman colonies. These colonies were often made up of retired soldiers and their families, who were granted land to farm and live on. By 260 BC, Rome was beginning to dominate the whole of Italy and was brought into contact with other powerful states in the Mediterranean area.



260-146 BC The most powerful opposition to Rome's growth was Carthage on the African coast (in modern day Tunisia), After three major wars, including an attempted invasion of Rome by the Carthaginian general Hannibal and his elephants, Rome defeated Carthage. They gained five overseas provinces - Sicily, Corsica, Sardinia, Spain and Tunisia, By 146 BC, Rome's armies had pushed into Greece and Asia Minor (modern Turkey) and conquered these areas too.

146-27 BC Further successful conquests meant virtually the whole of the Mediterranean coastline was under the control of the Romans. Some areas, such as Egypt, remained as independent kingdoms with loyalty to Rome. Rome's armies had by now become very powerful and their commanders could grow strong in their individual provinces. Some of them became a threat

to Rome itself and the people's government there. The most famous of these, Julius Caesar, used his position and fame from his conquest of Gaul (France) to have himself declared sole ruler of this vast territory. However, he was assassinated by men who believed that Rome should not have a single powerful ruler. It was left to Augustus, named by Caesar as his successor, to seize political power and establish himself as emperor.

27 BC-AD 14 The reign of Emperor Augustus established the Roman Empire. Thirty legions were now stationed all over the Roman provinces. Soldiers were still campaigning beyond Rome's borders. particularly in Germany, where the loss in AD 9 of three legions caused only a temporary halt in the expansion of the Empire.



Augustus

AD 14-69 After Augustus's death, the Empire was ruled by his descendants, some of whom had no military experience. Despite this, Rome's armies, under capable generals, were active in Africa between AD 17-24, entered Britain in AD 43 and increased their territory in Germany.

AD 69-96 The last of Augustus's descendants, Nero, was murdered in AD 69. After an internal war in which three other emperors were installed and quickly removed, an army commander from the east. Vespasian, became emperor. A year later, a long-standing revolt in Judaea (Israel) was crushed and Jerusalem was captured. The frontier along the river Danube in Germany was strengthened, the Roman army pushed into Scotland and battles began in Dacia (modern Romania).



AD 96-138 The greatest extent of Rome's Empire occurred during the reigns of Trajan (AD 96-117) and Hadrian (AD 117-138). During this period, the German frontiers were extended and Dacia was added to the empire after Trajan's conquests in AD 105. In the same year, conquests in Scotland seem to have been abandoned. By the reign of Emperor Hadrian, permanent frontiers were beginning to mark the extent of Rome's Empire -the building of Hadrian's Wall in northern Britain was started about AD 122.

AD 138-193 A relatively peaceful period, but with occasional serious campaigns fought against warring tribes, such as the Marcomanni in the Balkans area about AD 167, Scotland was reoccupied by the Romans between AD 143-163.



Triumphal arch in Rome

AD 193-211 Severe unrest began in a number of areas, with rival emperors emerging to threaten the stability of the Empire. Control was re-established by Septimius Severus, but his strength and power was not maintained by his successors.

AD 211-284 A time of great turmoil for the Empire. External threats were mounted and wave after wave of invaders - from many different directions - began to attack the borders. Between AD 235 and 270 there were 15 different emperors and for a time (AD 260-275) Gaul, Britain and Spain were under completely separate rule, with a different emperor to the rest of the Empire. Defence of the borders became critical.

AD 284-305 Order was restored by a strong new emperor. Diocletian, who reformed the army and split the Empire into two separate parts. West and east were ruled by a pair of joint emperors, each helped by a iunior colleague. New command posts were created in the army with mobile forces who could fight wars, deal with invasions and supplement the more static frontier troops and their forts.

AD 305-337 Diocletian's arrangements for power-sharing broke down and by AD 312 there was a single ruler once again, Emperor Constantine. Reorganisation of the army continued and more powerfully protected frontier forts were built. Existing forts were modified to bring them up to date.



symbol

AD 337-406 The Roman Empire became Christian following Constantine's conversion in AD 313. After his death, the Empire continued to be under siege from outside tribes. Frontier defences were continually reinforced and many battles were fought against invading tribes in Germany and the east. By the beginning of the 5th century, many of the frontiers were being overrun.

GLOSSARY

Altar A table on which sacrifices were made. Roman altars often bore a Latin inscription to show who set them up.

Amphorae Large pottery containers in which foods like wine, oil, olives and sauces were transported and stored.

Auxiliary Roman army troops or units, originally formed from non-Romans, which were added to the legionary

Ballista An arrow or bolt-shooting machine, like a large crossbow, which used twisted ropes to provide the elastic power to shoot missiles.

Batman An attendant for an officer in the army who carries out all the officer's everyday cleaning tasks and is his personal servant.

Bolts Short wooden darts, tipped with steel, fired from ballistae.

Burial club A regular contribution. taken from a Roman soldier's pay. towards his burial expenses if he died while in service.

Buttresses Supports built onto the outside of a wall to prevent it from falling outwards.

Centurion The officer in charge of a century of men in either a legion or an auxiliary unit.

Century A division of men in the Roman army, normally 80 strong, commanded by a centurion.

Cohort A unit of around 500 men in the Roman army. A normal auxiliary cohort of infantry would contain 6 centuries, but some double-strength cohorts, with up to 1,000 men, have been recorded and could have been mixed infantry and cavalry.

Cult A formal way of worshipping the gods.

Desertion Leaving one's duty or failing to carry it out.

Dolabra. The Latin name for the broad bladed axe with which Roman soldiers dug ditches and formed earth ramparts.

Drill Formal marching or other practice formations of soldiers.

Emblem A mascot or lucky symbol. adopted by a unit of troops and put on their standards or shields.

Garum A thick and concentrated fish sauce, made from fish caught in the Mediterranean and exported widely round the Roman Empire.

Gaul The Roman name for the area now occupied by France, Belgium, Luxembourg and parts of The Netherlands and Germany.

Groma An instrument (two cross-pieces mounted on top of a pole) used by Roman surveyors to measure straight lines and corners.

Hadrian's Wall A wall partly of stone and partly of stacked turf, built about 122-125 AD. It stretched from the River Tyne near Newcastle, England, 120 km to the west coast near Carlisle. Together with forts, towers and gateways, it formed a frontier barrier through which all traffic to and from Scotland had to pass.

Hypocaust heating A system in which hot air was circulated under floors to heat the rooms or baths above

Legate The commander of a legion. A very senior officer in the army who might also have been the governor of the province.

Legion One of approximately 30 units of men, recruited from Roman citizens, who were the best trained and most feared soldiers in the Roman Empire.

Mansio A hotel in a fort settlement in which official messengers and those working for the Emperor could stay.

Official messengers People who carried official information round the Roman Empire, such as letters and instructions from the emperor or the governor of the province.

Quern-stones Rough round stones used to grind corn into flour for making bread. The bottom one was flat and the top one had a turning-handle and a hole down the middle.

Scabbard. The sheath into which a sword is placed for protection when not being used.

Shingles Wooden tiles used as a roof covering, often cut from bark and used bark uppermost, so that rainwater runs

Shrine A holy place where gods are worshipped.

Trajan's column A 38-m high column in the forum at Rome. It was built by Emperor Traian between AD 107-113. The marble column is covered with carvings telling the story of the successful wars in Dacia (Romania). They show many aspects of the Roman army in action.

Verandah A covered passage down one side of a building, open on one side and held up by columns.

Writing tablets Slim leaves of wood covered in a thin layer of wax.

INDEX

Page numbers in **bold** refer to illustrations

A amphorae 37, 39 animals 24, 37 agueduct 10, 20, 38-39 archers 8, 19 armour 9, 16, 22, 26-27, 38 army, Roman 6, 8-9, 42-43 auxiliary soldiers 8, 8, 9, 13

bakehouse 22. 37 ballistae 16, 18-19, 18-19 barracks 10, 11, 11, 12-13, 12-13, 22-23, bath house 10, 10, 20-21, 20-21, 24, 34, 35. 39 baths, commander's 14, 15 hatman 24, 25, 44 blacksmith 31, 31 burial 41, 41 butcher 31, 31

camps, temporary 26, 28, 28, 29 cavalry 8, 39 cemetery 10, 11, 41 centurions 8-9, 8-9, 12-13, 13, 22-23, 24, 25. 27 children, soldiers' 10, 40-41 cleaning the fort 24-25, 24-25 clothing 8-9, 13, 13, 38, 39 commander's house 10, 14-15, 14-15 cooking 9, 14-15, 22, 23, 23, 37, 39

defences 18-19, 18-19 desertion 24-25, 44 dinner party, commander's 14-15 discharge from army 17, 40-41, 40-41 discipline 24-25 ditches 19, 19, 22-23, 24, 26, 28, 29 dolabra 9, 9, 44 drill 26 duties 24-25

emperors, Roman 6, 16, 17, 27, 32, 33, 33, 42, 42, 43 entertainment 34-35, 34-35 equipment 8-9, 8-9, 13, 13, 22-23, 23, 28, 31, 38

festivals 34 food 10, 14-15, 14-15, 16, 22, 23, 30-31, 36-37, 36-37, 38-39 fort layout 10-11, 10-11, 28 frontiers 6, 15, 26, 43 furnaces 21, 21, 24

gambling 23, 35 games 20, 22, 34-35, 35 garum 37, 44 gates 11, 18, 18, 23, 24 gladius 9.9 gods 16, 18, 32-33, 32-33 granaries 10, 10, 23, 36-37, 36-37 groma 10, 44 H

Hadrian's Wall 6, 9, 32, 43

hospital 10, 23, 29, 29

hunting 14, 34

kitchens 14, 14

legate 27, 27

leather worker 31, 31

legionary soldiers 8, 9, 9, 27

medical instruments 29, 29

musical instruments 26, 26

official messengers 10, 44

mess rooms 22-23, 22-23, 28

K

17, 16-17, 22, 32, 36, 40, 41

hotel (mansio) 10, 15, 30, 44

buttresses 36, 36 inn 23, 30, 30, 34

D parade ground 26 patrol duty 11, 11, 22, 28 pay, soldier's 16, 25, 35 pottery making 30, 30 practice 26-27, 26-27 punishments 24-25

settlement, civilian, 10, 11, 23, 24, 25, 30-31, 30-31, 35, 38-39, 40 shields 8-9, 8-9, 13, 13 shingles 12, 44 shrines 11, 16, 17 headquarters building 10, 11, 11, 14, 16stables 10, 11, 14, 14 standards 8-9, 8-9, 16, 27, 27 strigils 20, 20, 21 strongroom 16, 17 supplies 8, 11, 14, 16, 36, 38-39 swords 8, 9, 9, 13, 22, 26

guern-stones 22, 44

relaxation 21-22

sandals 13, 13, 31

scribes 16, 16, 23

records, military 16, 16

rubbish disposal 19, 25, 25

religion 32-33

recruits 6, 8

ramparts 10, 19, 25, 26, 28-29, 29

Rome 6-7, 6-7, 28, 32, 39, 40, 42

taxes 39 temples 30, 32-33 tents 16, 26, 28-29, 28-29 toilets 14, 20, 20, 25, 39 traders 10, 30 training 8, 8 Trajan's Column 28 tribes 6, 43

verandah 16, 44

wagons 8, 8, 23, 24, 28, 38, 38-39 water supply 10, 12, 16, 21, 38-39, 38-39

weapons 8-9, 8-9, 16, 16, 22, 38 wine 14, 23, 30, 37 wives, soldiers' 10, 30, 40, 40 workshops 10, 22, 24, 30, 40 writing tablets 16, 16, 44

