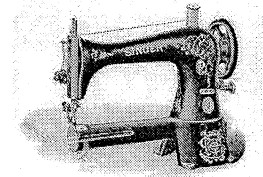


Chapter 14 – The Worlds of the North and South
Section 1 – Industry in the North
Pages 374-377



MACHINE No. 17-1

New Machines

1. In 1846, _____ patented a _____. Later _____ improved on Howe's machine.
2. What could workers do faster because of the sewing machine? _____
3. _____ invented a lightweight steel plow.
4. Why did old plows make work slower? _____
5. How did the new plow cause work to be quicker? _____
6. In 1847, Cyrus McCormick opened a _____ to produce _____.
7. What could McCormick's reaper do?

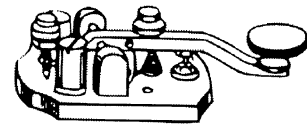
8. How did the reaper and steel plow help farmers?

9. As a result of needed fewer farm hands, thousands of _____ left the countryside.
10. What did these farm workers do after they left the countryside?

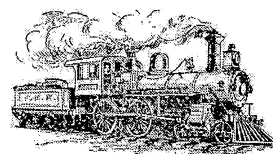
The Telegraph

11. In 1844, _____ received a patent for a "_____" or _____.
12. A telegraph was a device that sent _____ along a wire.
13. The signals were base on a _____.
14. This system of code became known as _____.
15. Who gave funds to run a wire from Washington D.C. to Baltimore? _____
16. What sprang up everywhere because the telegraph was an instant success?

17. As a result of the telegraph
 - a. _____ could travel long distances in a matter of minutes.
 - b. Many _____ began to thrive.

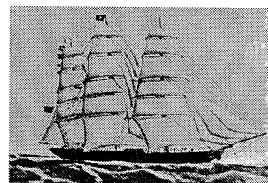


The First Railroads



18. When were the first railroads built? _____
19. _____ or _____ pulled the cars along _____ rails covered with strips of iron.
20. In 1829 the _____ - _____ locomotive engine was developed.
21. At what speed did this new locomotive move? _____
22. Difficulties the railroads faced:
- a. _____ didn't want railroads running through their lands.
 - b. Teamsters feared _____.
 - c. Investors in canals worried that _____ from railroads might cause them to _____.
 - d. There was concern over _____ and _____ because early steam locomotives often broke down or had accidents. Hot embers sometimes burned _____ or _____.
23. Improvements made railroad travel safer and faster. By 1850s, railroads _____ the nation. Most railroads were concentrated in the _____ with much less track in the _____.

Yankee Clippers



24. _____ launched the first clipper ship.
25. Why were clipper ships faster than old ships?

- _____
26. Why did iron steamships replace clipper ships?
- _____

The Northern Economy Expands

27. By the 1830s, factories began to use _____ power instead of _____ power.
28. Factories run by steam
- a. were powerful and _____ to run.
 - b. could be _____ almost anywhere, not just along _____.
29. As a result, American _____ expanded _____.