

# ТРЕПКА

## ТРЕПКА И ДОКТОР



С. П. ПЕТРОВ

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Вот так, вконец измученный, он вышел из кабинета. Он чувствовал, что его душа вырывается из груди. Он хотел крикнуть, но не мог. Он чувствовал, что его душа вырывается из груди. Он хотел крикнуть, но не мог. Он чувствовал, что его душа вырывается из груди. Он хотел крикнуть, но не мог.

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Date	Description	Amount	Balance
1890			
Jan 1	Balance forward		100.00
Jan 15	Received from A. B.	50.00	150.00
Jan 20	Received from C. D.	25.00	175.00
Jan 25	Received from E. F.	10.00	185.00
Jan 30	Received from G. H.	15.00	200.00
Feb 5	Received from I. J.	20.00	220.00
Feb 10	Received from K. L.	15.00	235.00
Feb 15	Received from M. N.	10.00	245.00
Feb 20	Received from O. P.	15.00	260.00
Feb 25	Received from Q. R.	10.00	270.00
Feb 30	Received from S. T.	15.00	285.00
Mar 5	Received from U. V.	10.00	295.00
Mar 10	Received from W. X.	15.00	310.00
Mar 15	Received from Y. Z.	10.00	320.00
Mar 20	Received from A. B.	15.00	335.00
Mar 25	Received from C. D.	10.00	345.00
Mar 30	Received from E. F.	15.00	360.00
Apr 5	Received from G. H.	10.00	370.00
Apr 10	Received from I. J.	15.00	385.00
Apr 15	Received from K. L.	10.00	395.00
Apr 20	Received from M. N.	15.00	410.00
Apr 25	Received from O. P.	10.00	420.00
Apr 30	Received from Q. R.	15.00	435.00
May 5	Received from S. T.	10.00	445.00
May 10	Received from U. V.	15.00	460.00
May 15	Received from W. X.	10.00	470.00
May 20	Received from Y. Z.	15.00	485.00
May 25	Received from A. B.	10.00	495.00
May 30	Received from C. D.	15.00	510.00
Jun 5	Received from E. F.	10.00	520.00
Jun 10	Received from G. H.	15.00	535.00
Jun 15	Received from I. J.	10.00	545.00
Jun 20	Received from K. L.	15.00	560.00
Jun 25	Received from M. N.	10.00	570.00
Jun 30	Received from O. P.	15.00	585.00
Jul 5	Received from Q. R.	10.00	595.00
Jul 10	Received from S. T.	15.00	610.00
Jul 15	Received from U. V.	10.00	620.00
Jul 20	Received from W. X.	15.00	635.00
Jul 25	Received from Y. Z.	10.00	645.00
Jul 30	Received from A. B.	15.00	660.00
Aug 5	Received from C. D.	10.00	670.00
Aug 10	Received from E. F.	15.00	685.00
Aug 15	Received from G. H.	10.00	695.00
Aug 20	Received from I. J.	15.00	710.00
Aug 25	Received from K. L.	10.00	720.00
Aug 30	Received from M. N.	15.00	735.00
Sep 5	Received from O. P.	10.00	745.00
Sep 10	Received from Q. R.	15.00	760.00
Sep 15	Received from S. T.	10.00	770.00
Sep 20	Received from U. V.	15.00	785.00
Sep 25	Received from W. X.	10.00	795.00
Sep 30	Received from Y. Z.	15.00	810.00
Oct 5	Received from A. B.	10.00	820.00
Oct 10	Received from C. D.	15.00	835.00
Oct 15	Received from E. F.	10.00	845.00
Oct 20	Received from G. H.	15.00	860.00
Oct 25	Received from I. J.	10.00	870.00
Oct 30	Received from K. L.	15.00	885.00
Nov 5	Received from M. N.	10.00	895.00
Nov 10	Received from O. P.	15.00	910.00
Nov 15	Received from Q. R.	10.00	920.00
Nov 20	Received from S. T.	15.00	935.00
Nov 25	Received from U. V.	10.00	945.00
Nov 30	Received from W. X.	15.00	960.00
Dec 5	Received from Y. Z.	10.00	970.00
Dec 10	Received from A. B.	15.00	985.00
Dec 15	Received from C. D.	10.00	995.00
Dec 20	Received from E. F.	15.00	1010.00
Dec 25	Received from G. H.	10.00	1020.00
Dec 30	Received from I. J.	15.00	1035.00
1891			
Jan 1	Balance forward		1035.00
Jan 15	Received from K. L.	10.00	1045.00
Jan 20	Received from M. N.	15.00	1060.00
Jan 25	Received from O. P.	10.00	1070.00
Jan 30	Received from Q. R.	15.00	1085.00
Feb 5	Received from S. T.	10.00	1095.00
Feb 10	Received from U. V.	15.00	1110.00
Feb 15	Received from W. X.	10.00	1120.00
Feb 20	Received from Y. Z.	15.00	1135.00
Feb 25	Received from A. B.	10.00	1145.00
Feb 30	Received from C. D.	15.00	1160.00
Mar 5	Received from E. F.	10.00	1170.00
Mar 10	Received from G. H.	15.00	1185.00
Mar 15	Received from I. J.	10.00	1195.00
Mar 20	Received from K. L.	15.00	1210.00
Mar 25	Received from M. N.	10.00	1220.00
Mar 30	Received from O. P.	15.00	1235.00
Apr 5	Received from Q. R.	10.00	1245.00
Apr 10	Received from S. T.	15.00	1260.00
Apr 15	Received from U. V.	10.00	1270.00
Apr 20	Received from W. X.	15.00	1285.00
Apr 25	Received from Y. Z.	10.00	1295.00
Apr 30	Received from A. B.	15.00	1310.00
May 5	Received from C. D.	10.00	1320.00
May 10	Received from E. F.	15.00	1335.00
May 15	Received from G. H.	10.00	1345.00
May 20	Received from I. J.	15.00	1360.00
May 25	Received from K. L.	10.00	1370.00
May 30	Received from M. N.	15.00	1385.00
Jun 5	Received from O. P.	10.00	1395.00
Jun 10	Received from Q. R.	15.00	1410.00
Jun 15	Received from S. T.	10.00	1420.00
Jun 20	Received from U. V.	15.00	1435.00
Jun 25	Received from W. X.	10.00	1445.00
Jun 30	Received from Y. Z.	15.00	1460.00
Jul 5	Received from A. B.	10.00	1470.00
Jul 10	Received from C. D.	15.00	1485.00
Jul 15	Received from E. F.	10.00	1495.00
Jul 20	Received from G. H.	15.00	1510.00
Jul 25	Received from I. J.	10.00	1520.00
Jul 30	Received from K. L.	15.00	1535.00
Aug 5	Received from M. N.	10.00	1545.00
Aug 10	Received from O. P.	15.00	1560.00
Aug 15	Received from Q. R.	10.00	1570.00
Aug 20	Received from S. T.	15.00	1585.00
Aug 25	Received from U. V.	10.00	1595.00
Aug 30	Received from W. X.	15.00	1610.00
Sep 5	Received from Y. Z.	10.00	1620.00
Sep 10	Received from A. B.	15.00	1635.00
Sep 15	Received from C. D.	10.00	1645.00
Sep 20	Received from E. F.	15.00	1660.00
Sep 25	Received from G. H.	10.00	1670.00
Sep 30	Received from I. J.	15.00	1685.00
Oct 5	Received from K. L.	10.00	1695.00
Oct 10	Received from M. N.	15.00	1710.00
Oct 15	Received from O. P.	10.00	1720.00
Oct 20	Received from Q. R.	15.00	1735.00
Oct 25	Received from S. T.	10.00	1745.00
Oct 30	Received from U. V.	15.00	1760.00
Nov 5	Received from W. X.	10.00	1770.00
Nov 10	Received from Y. Z.	15.00	1785.00
Nov 15	Received from A. B.	10.00	1795.00
Nov 20	Received from C. D.	15.00	1810.00
Nov 25	Received from E. F.	10.00	1820.00
Nov 30	Received from G. H.	15.00	1835.00
Dec 5	Received from I. J.	10.00	1845.00
Dec 10	Received from K. L.	15.00	1860.00
Dec 15	Received from M. N.	10.00	1870.00
Dec 20	Received from O. P.	15.00	1885.00
Dec 25	Received from Q. R.	10.00	1895.00
Dec 30	Received from S. T.	15.00	1910.00

1. The following data were obtained from a study on the effect of temperature on the rate of reaction of a certain chemical. The reaction is exothermic.

Temperature ( $^{\circ}\text{C}$ )	Rate of reaction (mol/l.s)
10	0.05
15	0.07
20	0.10
25	0.14
30	0.20
35	0.28
40	0.38
45	0.52
50	0.70
55	0.95
60	1.30
65	1.80
70	2.40
75	3.20
80	4.30
85	5.80
90	7.80
95	10.50

(a) Plot the rate of reaction against temperature.

(b) Calculate the activation energy of the reaction.

(c) State the effect of a catalyst on the rate of reaction.

Temperature ( $^{\circ}\text{C}$ )	Rate of reaction (mol/l.s)
10	0.05
15	0.07
20	0.10
25	0.14
30	0.20
35	0.28
40	0.38
45	0.52
50	0.70
55	0.95
60	1.30
65	1.80
70	2.40
75	3.20
80	4.30
85	5.80
90	7.80
95	10.50

