SPECIMEN SET OF EXAMINATION-PAPERS FOR MASTER OF A CARGO-VESSEL UNDER 25 TONS, OR FOR MASTER OF A FISHING-BOAT.

1. ARITHMETIC AND NAVIGATION.

Time allowed: Two hours.

1. Express in figures—Thirty-eight millions nine hundred thousand and seven; twenty-five thousand three hundred.
2. Add the following quantities together: 1706, 74, 2, 4835, 972; also add together 987, 22, 9044, 6298, 806.
3. From 4825726 take 3987244; from 8465099 take 2999847; from 6238429 take 5989777; from 78432 take 69586.
4. Multiply 9842 by 68; multiply 8498 by 7286.
5. Divide 94862948 by 1989; divide 694382 by 9.
6. Add the following quantities together: £9248 4s. 9d.; £232 14s. 11d., £6982 3s. 7d., £63 15s. 2d. Also add together 842 tons 13 cwt. 2 qr. 1 lb., 414 tons 11 cwt. 3 qr. 14 lb., 8249 tons 3 cwt. 1 qr. 9 lb., 72 tons 16 cwt. 3 qr. 7 lb.
7. From £92486 16s. 7d. take £7829 4s. 10d.; and from 684 tons 2 cwt. 2 qr. 4 lb. take 399 tons 16 cwt. 3 qr. 2 lb.
8. Multiply the following quantities by 27: £1483 17s. 7d.; 29 tons 16 cwt. 3 qr. 17 lb.
9. Divide the following quantities by 94: £5806 4s. 8d.; and 9663 tons 8 cwt. 1 qr. 15 lb.
10. In a ship making 12 knots on a N. 15° E. course by compass, a point was sighted bearing N. 10° W., and after continuing to make good the same course and speed for 20 minutes the point bore N. 26° W. by compass.

    Required—The distance the ship will pass off the point.
11. The bearing of two objects in transit was found on the chart to be S.W. ¼ S. mag., but when brought in line on board they bore S.W. ¼ W. by compass:

    Required—The deviation of the compass for the direction of the ship's head.
12. Required the times of high and low water, a.m. and p.m., at Port Russell on 12th May, 1929, by the tide-tables in the "New Zealand Nautical Almanac."

2. CHART.

Time allowed: Three hours.

1. Using deviation card No. 4, find the course to steer by compass from *X* to North Cape; also the distance.
2. With the ship's head on the above-named compass course, Great Barrier Peak (2,330 ft.) bore by compass S. 48° E., and Poor Knights bore S. 50° W. by compass:

    Required—The position of the ship.
3. With the ship's head as above, Cape Brett bore by compass S. 56° W., and after continuing on the same course for 12 miles it bore S. 30° W.:

    Required—The position of the ship and the distance from Cape Brett at the time of taking the second bearing.

All the foregoing questions must be answered; but this does not preclude the Examiner from putting any other questions of a practical nature.

SPECIMEN EXAMINATION-PAPER FOR SECOND MATE (H.T.).

ARITHMETIC AND NAVIGATION.

Time allowed: Two hours.

1. Express in figures—Twenty-four millions seven hundred and two thousand; five hundred and nine thousand and four.
2. Add the following quantities together: 1402, 86, 903, 7284, 16708; also add together 72498, 60382, 704, 208, 7.
3. From 6840298 take 3826989; from 684062 take 508349; from 1800426 take 99840; from 1638072 take 899708.
4. Multiply 9886 by 37; multiply 98486 by 3972.
5. Divide 38409687 by 3837; divide 943068 by 14.
6. Add the following quantities together: £8468 9s. 4d., £1306 3s. 10d., £1608 4s. 6d., £3089 11s. 7d. Also add together 9843 tons 16 cwt. 2 qr. 14 lb.; 4860 tons 13 cwt. 3 qr. 2 lb.; 90 tons 18 cwt. 2 qr. 23 lb.; 6028 tons 16 cwt. 1 qr. 3 lb.
7. From 6488 17s. 6½d. take £5840 3s. 9¾d.; and from 54833 tons 16 cwt. 2 qr. 2 lb. take 9808 tons 3 cwt. 0 qr. 4 lb.
8. Multiply the following quantities by 92: £1840 4s. 6d.; 284 tons 16 cwt. 3 qr. 4 lb.
9. Divide the following quantities by 67: £134 2s. 10d.; 6094 tons 3 cwt. 1 qr. 18 lb.