

**Exercise 3.5 (page 47)**

- |            |              |              |
|------------|--------------|--------------|
| 1 $2^7$    | 2 $5^7$      | 3 $8^9$      |
| 4 $6^3$    | 5 9          | 6 3          |
| 7 $2^{12}$ | 8 $3^6$      | 9 $3^2$      |
| 10 $2^4$   | 11 $3^2$     | 12 6         |
| 13 32      | 14 3         | 15 1 000 000 |
| 16 16      | 17 64        | 18 243       |
| 19 16      | 20 49        | 21 27        |
| 22 1       | 23 1 000 000 | 24 1         |

**Exercise 3.6 (page 49)**

- |                          |                         |
|--------------------------|-------------------------|
| 1 $3.5 \times 10^5$      | 2 $4 \times 10^4$       |
| 3 $3.52 \times 10^8$     | 4 $1.93 \times 10^7$    |
| 5 $7.65 \times 10^2$     | 6 $4.5 \times 10^{-3}$  |
| 7 $8 \times 10^{-1}$     | 8 $2.03 \times 10^{-3}$ |
| 9 $8.27 \times 10^{-10}$ | 10 $3.3 \times 10^{-4}$ |
| 11 7 400 000             | 12 21 500 000           |
| 13 105 000               | 14 2 000 000 000        |
| 15 8400                  | 16 0.005                |
| 17 0.000 002 5           | 18 0.000 000 100 4      |
| 19 0.000 000 000 083     | 20 0.000 505            |