

$$\begin{aligned} \text{(c)} \quad & 42 \times 75 + 42 \times 25 \\ & = 42 \times (75 + 25) \\ & = 42 \times 100 \\ & = \mathbf{4200} \end{aligned}$$

$$\begin{aligned} \text{(d)} \quad & 33 \times 126 - 33 \times 26 \\ & = 33 \times (126 - 26) \\ & = 33 \times 100 \\ & = \mathbf{3300} \end{aligned}$$

3 Use a simple method to compute the following.

$$\begin{aligned} \text{(a)} \quad & 210 \div (5 \times 6) \\ & = 210 \div 5 \div 6 \\ & = 42 \div 6 \\ & = \mathbf{7} \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad & 748 \div (17 \times 11) \\ & = 748 \div 11 \div 17 \\ & = 68 \div 17 \\ & = \mathbf{4} \end{aligned}$$

$$\begin{aligned} \text{(c)} \quad & 4000 \div 125 \div 8 \\ & = 4000 \div (125 \times 8) \\ & = 4000 \div 1000 \\ & = \mathbf{4} \end{aligned}$$

$$\begin{aligned} \text{(d)} \quad & 56 \times 198 \div 11 \div 7 \\ & = 198 \div 11 \times 56 \div 7 \\ & = 18 \times 8 \\ & = \mathbf{144} \end{aligned}$$

4 Use a simple method to compute the following.

$$\begin{aligned} \text{(a)} \quad & 333 \times 222 \div 666 \\ & = 333 \times 2 \times 111 \div 666 \\ & = 666 \times 111 \div 666 \\ & = \mathbf{111} \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad & 4444 \times 2222 \div 8888 \\ & = 4444 \times 2 \times 1111 \div 8888 \\ & = 8888 \times 1111 \div 8888 \\ & = \mathbf{1111} \end{aligned}$$

$$\begin{aligned} \text{(c)} \quad & 454\,545\,450 \div 9 \div 5 \\ & = 454\,545\,450 \div (9 \times 5) \\ & = 454\,545\,450 \div 45 \\ & = \mathbf{10\,101\,010} \end{aligned}$$

$$\begin{aligned} \text{(d)} \quad & 999 + 999 \times 999 \\ & = 999 \times (1 + 999) \\ & = 999 \times 1000 \\ & = \mathbf{999\,000} \end{aligned}$$