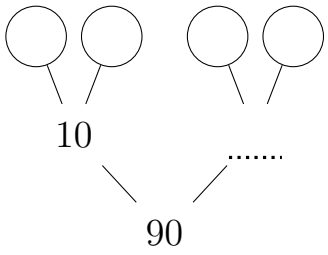
1. Complete

   (i) the prime factor tree for 90

   (ii) the steps to write $\frac{90}{330}$ in simplest form.

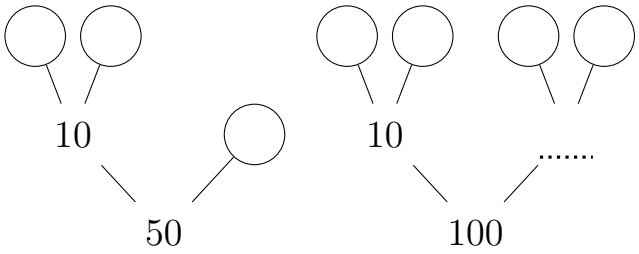



$$\frac{90}{330} = \frac{\times \quad \times \quad \times}{2 \times 3 \times 5 \times 11} = \text{——}$$

2. Complete

   (i) the prime factor trees for 50 and 100

   (ii) the steps to write $\frac{50}{100}$ in simplest form.



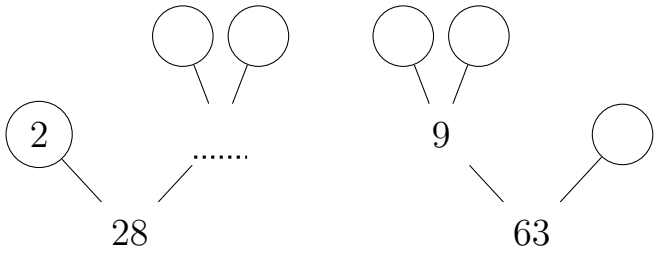

$$\frac{50}{100} = \frac{\times \quad \times}{\times \quad \times \quad \times} = \frac{\quad}{\quad}$$

3. Complete

   (i) the prime factor trees for 28 and 63

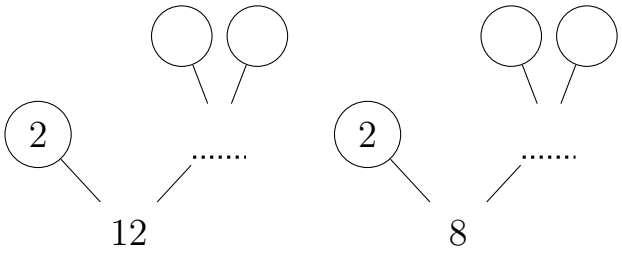
   (ii) the steps to write $\frac{28}{63}$ in simplest form.

$$\frac{28}{63} = \frac{\times \quad \times}{\times \quad \times} = \frac{\quad}{\quad}$$



4. Complete

(i) the prime factor trees for 12 and 8




(ii) the steps to write $\frac{3}{12}$ in simplest form.

$$\frac{3}{12} = \frac{3}{\times \quad \times} = \text{——}$$

(iii) the steps to write $\frac{8}{12}$ in simplest form.

$$\frac{8}{12} = \frac{\times \quad \times}{\times \quad \times} = \text{——}$$

Answers

1. (i) $2 \times 5 \times 3 \times 3$ (ii) $\frac{3}{11}$
2. (i) $2 \times 5 \times 5$ and $2 \times 5 \times 2 \times 5$ (ii) $\frac{1}{2}$
3. (i) $2 \times 2 \times 7$ and $3 \times 3 \times 7$ (ii) $\frac{4}{9}$
4. (i) $2 \times 2 \times 3$ and $2 \times 2 \times 2$, (ii) $\frac{1}{4}$, (iii) $\frac{1}{3}$