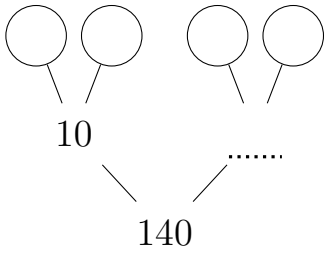
1. Complete

   (i) the prime factor tree for 140

   (ii) the steps to write $\frac{126}{140}$ in simplest form.

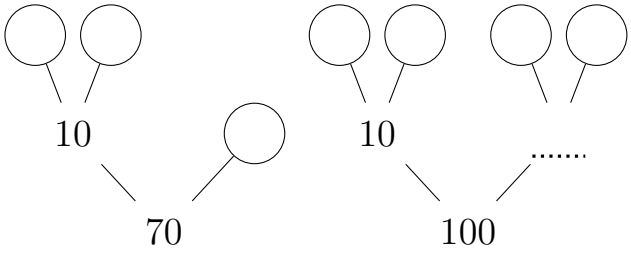


$$\frac{126}{140} = \frac{2 \times 3 \times 3 \times 7}{\times \quad \times \quad \times} = \text{——}$$

2. Complete

   (i) the prime factor trees for 70 and 100,

   (ii) the steps to write $\frac{70}{100}$ in simplest form,



$$\frac{70}{100} = \frac{\times \quad \times}{\times \quad \times \quad \times} = \text{——}$$

   (iii) the steps to write $\frac{70}{140}$ in simplest form (use the prime factor tree from question 1).

$$\frac{70}{140} = \frac{\times \quad \times}{\times \quad \times \quad \times} = \text{——}$$

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simplestForm (2) Q1: (i) $2 \times 5 \times 2 \times 7$ (ii) $\frac{9}{10}$ Q2: (i) $2 \times 5 \times 7$ and $2 \times 5 \times 2 \times 5$ (ii) $\frac{7}{10}$ (iii) $\frac{1}{2}$

Q3: (i) $2 \times 5 \times 3$ (ii) $\frac{7}{5}$ Q4: (i) $2 \times 2 \times 3$ and $2 \times 5 \times 2 \times 3$ (ii) $\frac{1}{5}$, (iii) $\frac{1}{2}$

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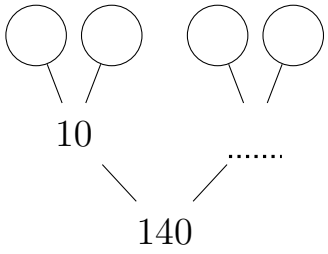
1. Complete

   (i) the prime factor tree for 140

   (ii) the steps to write $\frac{126}{140}$ in simplest form.

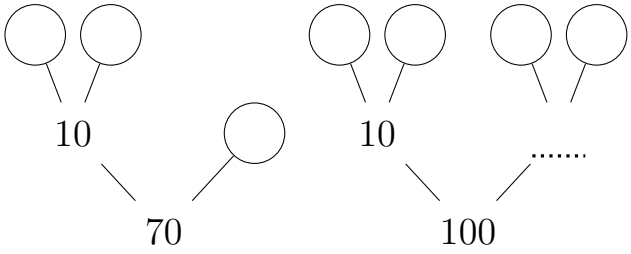


$$\frac{126}{140} = \frac{2 \times 3 \times 3 \times 7}{\times \quad \times \quad \times} = \text{——}$$

2. Complete

   (i) the prime factor trees for 70 and 100,

   (ii) the steps to write $\frac{70}{100}$ in simplest form,



$$\frac{70}{100} = \frac{\times \quad \times}{\times \quad \times \quad \times} = \text{——}$$

   (iii) the steps to write $\frac{70}{140}$ in simplest form (use the prime factor tree from question 1).

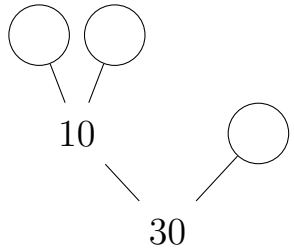
$$\frac{70}{140} = \frac{\times \quad \times}{\times \quad \times \quad \times} = \text{——}$$

3. Complete

(i) the prime factor tree for 30

(ii) the steps to write $\frac{42}{30}$ in simplest form.

$$\frac{42}{30} = \frac{2 \times 3 \times 7}{\times \quad \times} = \text{——}$$



4. Complete

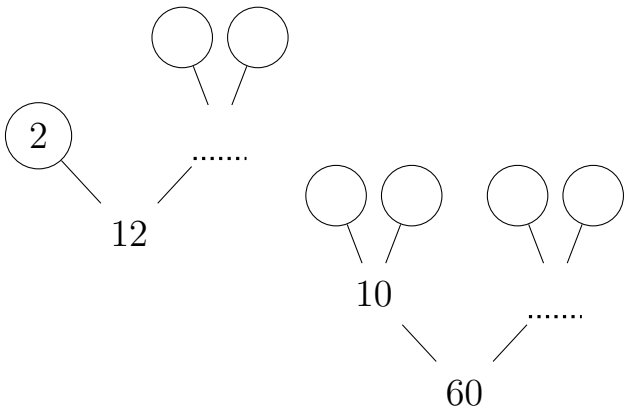
(i) the prime factor trees for 12 and 60

(ii) the steps to write $\frac{12}{60}$ in simplest form,

$$\frac{12}{60} = \frac{\times \quad \times}{\times \quad \times \quad \times} = \text{——}$$

(iii) the steps to write $\frac{30}{60}$ in simplest form.

$$\frac{30}{60} = \frac{\times \quad \times}{\times \quad \times \quad \times} = \text{——}$$

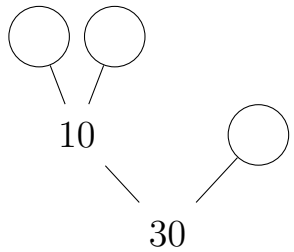


3. Complete

(i) the prime factor tree for 30

(ii) the steps to write $\frac{42}{30}$ in simplest form.

$$\frac{42}{30} = \frac{2 \times 3 \times 7}{\times \quad \times} = \text{——}$$

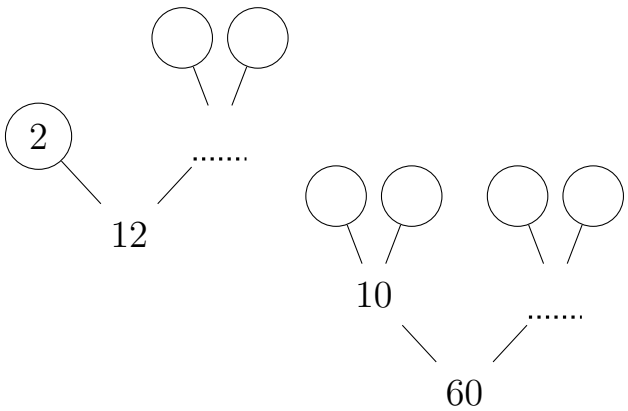


4. Complete

(i) the prime factor trees for 12 and 60

(ii) the steps to write $\frac{12}{60}$ in simplest form,

$$\frac{12}{60} = \frac{\times \quad \times}{\times \quad \times \quad \times} = \text{——}$$

(iii) the steps to write $\frac{30}{60}$ in simplest form.

$$\frac{30}{60} = \frac{\times \quad \times}{\times \quad \times \quad \times} = \text{——}$$