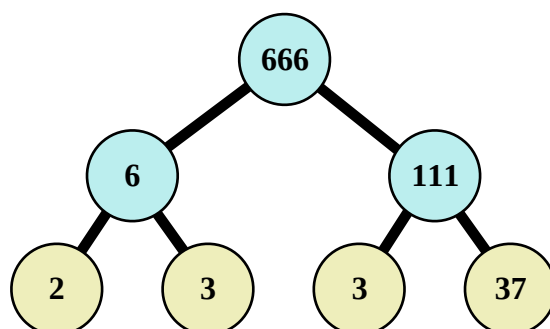


7.3 Answers

7.3.1 Solutions to 7.1 Grow Then Pick

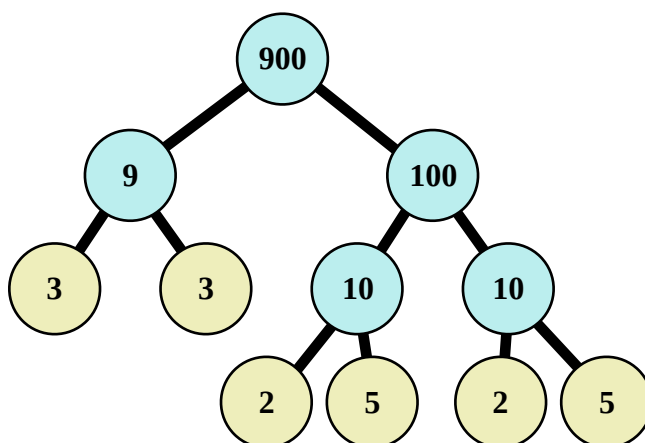
(a) (i)



$$666 = 2 \times 3 \times 3 \times 37$$

[3 marks]

(ii)



$$900 = 2 \times 2 \times 3 \times 3 \times 5 \times 5$$

[3 marks]

(b)

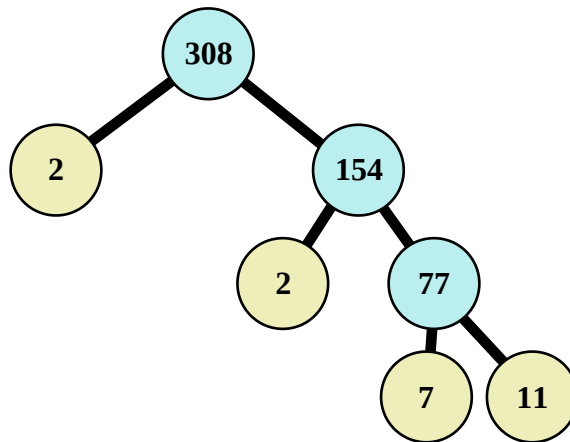
$$\begin{aligned} \frac{666}{900} &= \frac{2 \times 3 \times 3 \times 37}{2 \times 2 \times 3 \times 3 \times 5 \times 5} \\ &= \frac{37}{50} \end{aligned}$$

[4 marks]

7.3.1 Solutions to 7.2 Exercise

Answer 1

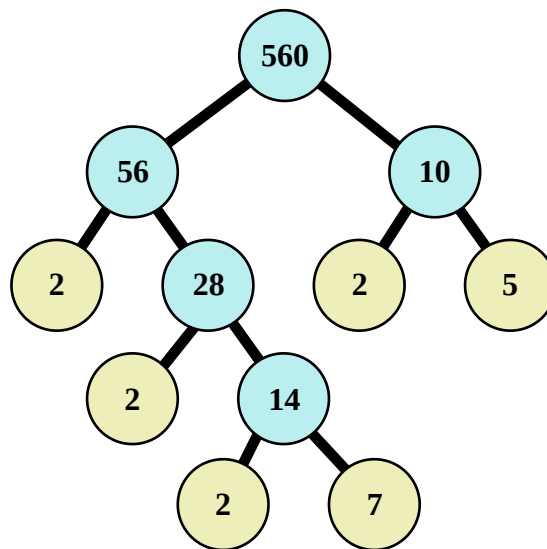
(a) (i)



$$308 = 2 \times 2 \times 7 \times 11$$

[3 marks]

(ii)



$$560 = 2 \times 2 \times 2 \times 2 \times 5 \times 7$$

[3 marks]

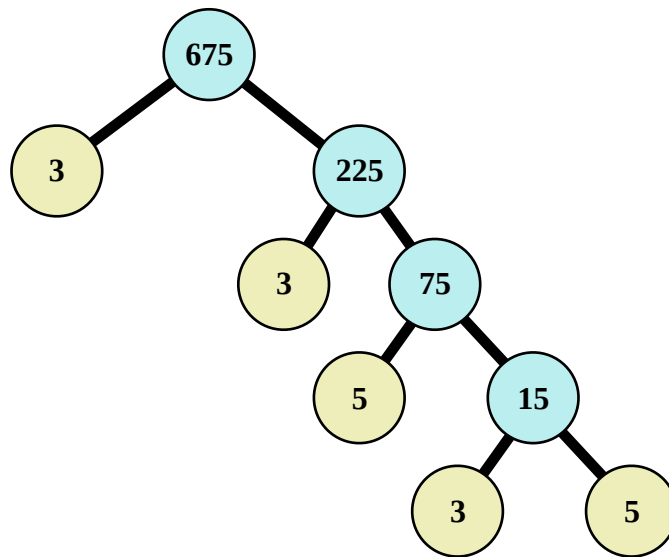
(b)

$$\begin{aligned} \frac{308}{560} &= \frac{2 \times 2 \times 7 \times 11}{2 \times 2 \times 2 \times 2 \times 5 \times 7} \\ &= \frac{11}{20} \end{aligned}$$

[4 marks]

Answer 2

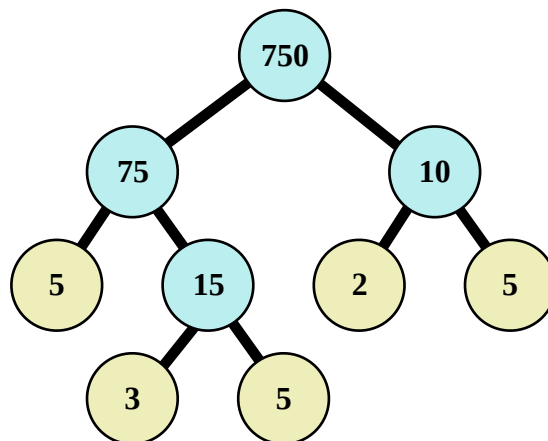
(a) (i)



$$675 = 3 \times 3 \times 3 \times 5 \times 5$$

[3 marks]

(ii)



$$750 = 2 \times 3 \times 5 \times 5 \times 5$$

[3 marks]

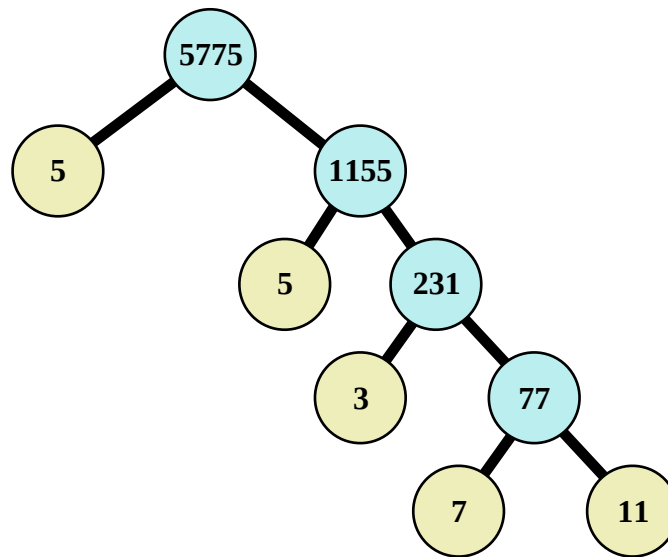
(b)

$$\begin{aligned} \frac{675}{750} &= \frac{3 \times 3 \times 3 \times 5 \times 5}{2 \times 3 \times 5 \times 5 \times 5} \\ &= \frac{9}{10} \end{aligned}$$

[4 marks]

Answer 3

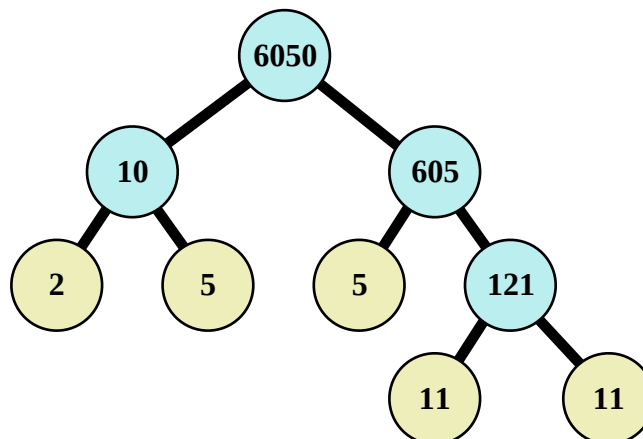
(a) (i)



$$5775 = 3 \times 5 \times 5 \times 7 \times 11$$

[3 marks]

(ii)



$$6050 = 2 \times 5 \times 5 \times 11 \times 11$$

[3 marks]

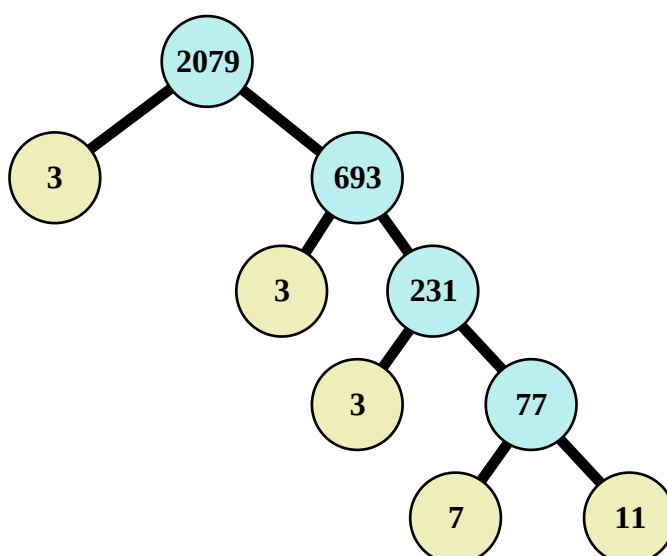
(b)

$$\frac{5775}{6050} = \frac{3 \times 5 \times 5 \times 7 \times 11}{2 \times 5 \times 5 \times 11 \times 11}$$

$$= \frac{21}{22}$$

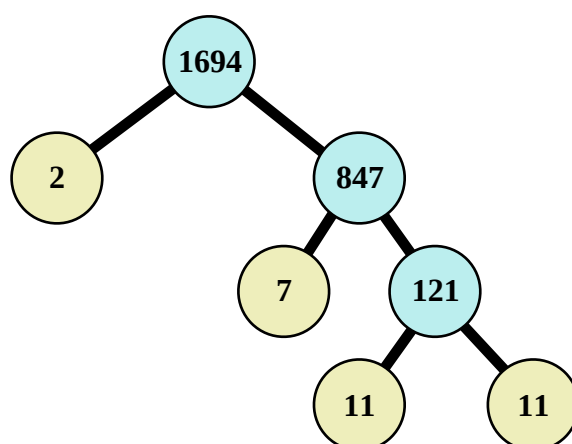
[4 marks]

Answer 4



$$2079 = 3 \times 3 \times 3 \times 7 \times 11$$

[3 marks]



$$1694 = 2 \times 7 \times 11 \times 11$$

[3 marks]

$$\begin{aligned} \frac{2079}{1694} &= \frac{3 \times 3 \times 3 \times 7 \times 11}{2 \times 7 \times 11 \times 11} \\ &= \frac{27}{22} \\ &= 1 \frac{5}{22} \end{aligned}$$

[4 marks]