

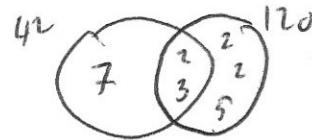


A red light flashes every 42 seconds.
A green light flashes every 2 minutes.

They both flash, how long until they both flash again?

$$42 = 2 \times 3 \times 7$$

$$120 = 2 \times 2 \times 2 \times 3 \times 5$$



$$\begin{aligned} \text{LCM} &= 7 \times 2 \times 3 \times 2 \times 2 \times 5 \\ &= 840 \text{ seconds} \\ &= 14 \text{ minutes} \end{aligned}$$

Work out

$$\frac{(y-2)^2}{4y}$$

$$\frac{1.2^2}{12.8}$$

$$\frac{1.44}{12.8} = 0.1125$$

if $y = 3.2$

Work out

$$2\frac{3}{4} \div 1\frac{1}{5}$$

$$\frac{11}{4} \div \frac{6}{5}$$

$$\frac{11}{4} \times \frac{5}{6} = \frac{55}{24}$$

$$2\frac{7}{24}$$

Factorise $x^2 + 11x + 18$

$$(x+2)(x+9)$$

Factorise $x^2 - 16$

$$(x-4)(x+4)$$

Solve the inequality $5x + 11 < 2x + 27$

$$3x + 11 < 27$$

$$3x < 16$$

$$x < 5.\dot{3}$$

$$x < 5\frac{1}{3}$$