

23rd October



Corbettmaths

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

$$\frac{17}{4} \div \frac{13}{5}$$

$$\frac{17}{4} \times \frac{5}{13} = \frac{85}{52}$$

$$1\frac{33}{52}$$

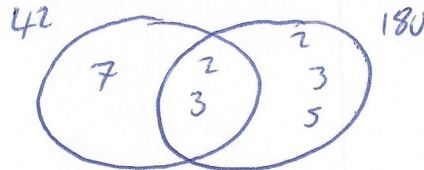
A light flashes every 42 seconds.
A buzzer buzzes every 3 minutes.

180

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

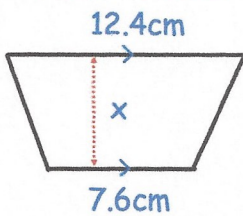
$$42 = 2 \times 3 \times 7$$

$$180 = 2 \times 2 \times 3 \times 3 \times 5$$



$$\text{LCM} = 7 \times 2 \times 3 \times 2 \times 3 \times 5$$

$$= 1260$$

Area = 115cm²

$$\frac{1}{2}(a+b)h$$

Find x

$$\frac{1}{2}(12.4 + 7.6)x = 115$$

$$\frac{1}{2}(20)x = 115$$

$$10x = 115$$

$$x = 11.5$$

A coin is flipped and a dice is rolled.

What is the probability of a tail and a 1?

$$\frac{1}{12}$$

	1	2	3	4	5	6
T	T1	T2	T3	T4	T5	T6
H	H1	H2	H3	H4	H5	H6

$$a = \begin{pmatrix} 6 \\ -4 \end{pmatrix} \quad b = \begin{pmatrix} -2 \\ 1 \end{pmatrix}$$

$$2a = \begin{pmatrix} 12 \\ -8 \end{pmatrix}$$

Work out $2a - b$

$$2a - b = \begin{pmatrix} 14 \\ -9 \end{pmatrix}$$