

26th June

Foundation Plus 5-a-day



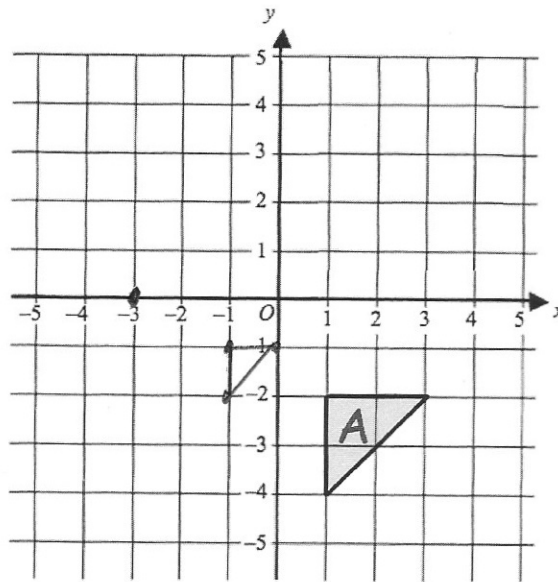
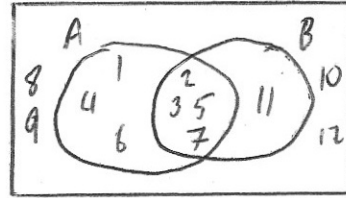
Corbettmoths

$\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12\}$

$A = \{\text{numbers less than } 8\}$

$B = \{\text{prime numbers}\}$

Draw a Venn diagram for this information.



Enlarge triangle A by scale factor $\frac{1}{2}$, using centre of enlargement $(-3, 0)$.

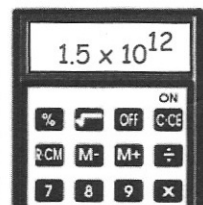
Trains to Portadown leave a train station every 32 minutes. $2 \times 2 \times 2 \times 2 \times 2$
 Trains to Portrush leave a train station every 28 minutes $2 \times 2 \times 7$
 A train to Portadown and a train to Portrush both leave the train station at 8am.



When will a train to Portadown and a train to Portrush both leave the train station at the same time?

$$\begin{aligned} \text{LCM} &: 2 \times 2 \times 2 \times 2 \times 2 \times 7 \\ &= 224 \quad 3 \text{ hrs } 44 \text{ mins} \\ &11:44 \text{ am} \end{aligned}$$

Asif has multiplied two numbers using his calculator.
 The calculator shows the answer.
 He can remember that one number was 5000.
 What was the other number used in the multiplication?



$$\begin{aligned} (1.5 \times 10^{12}) &\div (5 \times 10^3) \\ &= 0.3 \times 10^9 \\ &= 3 \times 10^8 \end{aligned}$$