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Describe fully the single transformation that maps shape B onto shape A.
Enlargement scale factor $\frac{1}{2}$ about $(2,6)$




| 9th August |  |
| :---: | :---: |
| Calculate the perimeter of this quarter circle $\begin{aligned} & \frac{2 \pi r}{4}+r+r \\ =\frac{2 \pi \times 5}{4} & +5+5 \\ & =17.85 \mathrm{~cm} \end{aligned}$ | Corbettmoths |
| The mean of four numbers is 10 . Three of the numbers are 9, 11 and 7. Work out the fourth number. $\begin{aligned} \text { Mean } & =10 \\ \text { so total } & =10 \times 4 \\ & =40 \end{aligned}$ | $\begin{aligned} & 9+11+7=27 \\ & 40-27=13 \end{aligned}$ <br> fourth is 13 |
| Find the output if the input is 5$5 \times \frac{3}{4} \times \frac{3}{2}=\frac{45}{8} \text { or } 5 \frac{5}{8}$ |  |
| $\begin{aligned} & \text { Factorise } x^{2}+10 x+9 \\ & \qquad(x+1)(x+9) \end{aligned}$ |  |
| Match each of the following |  |

$\qquad$
10th August

The table shows the probabilities
that a sweet taken from a jar will be red, pink or purple.

| Colour | Red | Pink | Purple |
| :--- | :---: | :---: | :---: |
| Probability | 0.4 | 0.25 |  |
| $1-(0.4+0.25)=0.35$ |  |  |  |

There are 4000 sweets Corbettmoths How many are purple?

$$
4000 \times 0.35
$$

$$
=1400
$$

Complete the table of values and draw a graph

| $x$ | -2 | -1 | 0 | 1 | 2 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $y$ | -8 | -1 | 0 | 1 | 8 |

(3) + (4) $\quad 19 x=38$

$$
x=\frac{38}{14}=2
$$

$$
\begin{aligned}
18+15 y & =3 \\
15 y & =-15 \\
y & =-1
\end{aligned}
$$

(1) $\times 5$
(2) $\times 3 \quad 9 x+15 y=3$

Sub in (2)
(4) $\quad\left\{\begin{array}{l}x=2 \\ y=-1\end{array}\right.$
$10 x-15 y=35$
$3 x+5 y=1$

$$
\begin{cases}x=2 & 15 y=-15 \\ y=-1 & y=-1\end{cases}
$$

