## Translate and describe a <br> 2D vector

Maths

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## Translating with vectors

1. Translate each of the shapes as instructed.
A $\binom{2}{1}$
$B\binom{4}{-7}$
$C\binom{-3}{0}$
$D\binom{0}{4}$

2. Describe the translations.

a) $E$ to $D()$
b) $D$ to $C()$
c) $B$ to $F()$
d) B to A()

## Translating with vectors

3. Use the diagram to match up the cards.



| $\binom{1}{2}$ | F to D |
| :--- | :--- |
| $\binom{-6}{-2}$ | B to A |

4. Mark is translating shape $X$ by the vector $\binom{4}{-3}$
He has labelled his shape Y.

a) What mistake has Mark made?
b) What is the correct answer? Label your shape $Z$.

Answers

## Translating with vectors

1. Translate each of the shapes as instructed.
A $\binom{2}{1}$
B $\binom{4}{-7}$
$C\binom{-3}{0}$
$D\binom{0}{4}$

|  |  |  |  | A |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

2. Describe the translations.

a) $E$ to $D\binom{7}{5}$
b) $D$ to $C\binom{2}{-3}$
c) $B$ to $F\binom{4}{-3}$
d) $B$ to $A\binom{-1}{5}$

## Translating with vectors

3. Use the diagram to match up the cards.

4. Mark is translating shape $X$ by the vector $\binom{4}{-3}$
He has labelled his shape Y.

a) What mistake has Mark made? Moved 5 squares right instead of 4 .
b) What is the correct answer?

Label your shape $Z$.

