## SMART START

**1** A square has an area of 144 in². What is the length, to the nearest inch, of the diagonal?

- ○ 15 inches
- ○ 16 inches
- ○ 17 inches
- ○ 18 inches

Brianna starts from home and walks 6 km west. She then takes a left and walks 8 km south.

Using the *shortest* distance between her home and current location, how far is Brianna from her home in the scenario described?
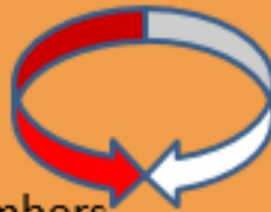
- ○ $\sqrt{2}$ km
- ○ $2\sqrt{7}$ km
- ○ 10 km
- ○ 14 km

What to do with the x and y in the ordered pairs….

**180°** Rotations (CW or CCW)

Steps:

1. NO SWITCH
2. Change Signs of both numbers

Starts as (-3, 2)…
No switch… (-3, 2)
Change Signs… (3, -2) THIS IS YOUR ANSWER!!

# HINTS for Remembering
## 90 º CW and 90 º CCW

- **90 º CW** ... Switch , Change the sign of second number ( *moving to the right, so you change the number on the right*)

$$(x, y) \rightarrow (y, -x)$$

- **90 º CCW** .... Switch, Change the sign of the first number (*moving to the left, so you change the number on the left*)

$$(x, y) \rightarrow (-y, x)$$