

Name: _____

1. (a) Find the **obtuse** angle formed by the hands of a clock at 8:00.



- (b) Find the **reflex** angle formed by the hands of a clock at 8:00.

2. The blades of a windmill complete one revolution every minute.
What angle would the blades turn through in the following times?

- (a) One second

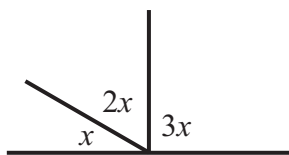
- (b) Ten seconds

3. How many degrees are in the following angles?

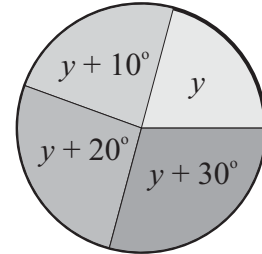
- (a) $\frac{1}{5}$ of a circle

- (b) $\frac{3}{5}$ of a circle

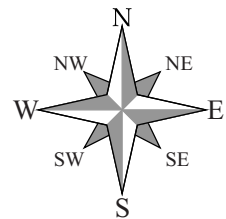
4. Find x .



5. Find y .



6. Use the compass shown here to help answer the following questions.



- (a) What is the angle between the following directions?

- (i) North-east and south-east

- (i) South and north-west

- (b) If you are facing south-east, which direction is 90° to your left?

- (c) If you are facing north-west and turn 45° to your right, which direction are you now facing?

- (d) A yacht is travelling in a northerly direction. It changes its direction of travel by 70° to the east. By what angle would the yacht need to change its direction of travel to be sailing south?