

YEAR 9 NUMERACY Calculator allowed – SET 10

Name Date

1 What is 60% of 60?

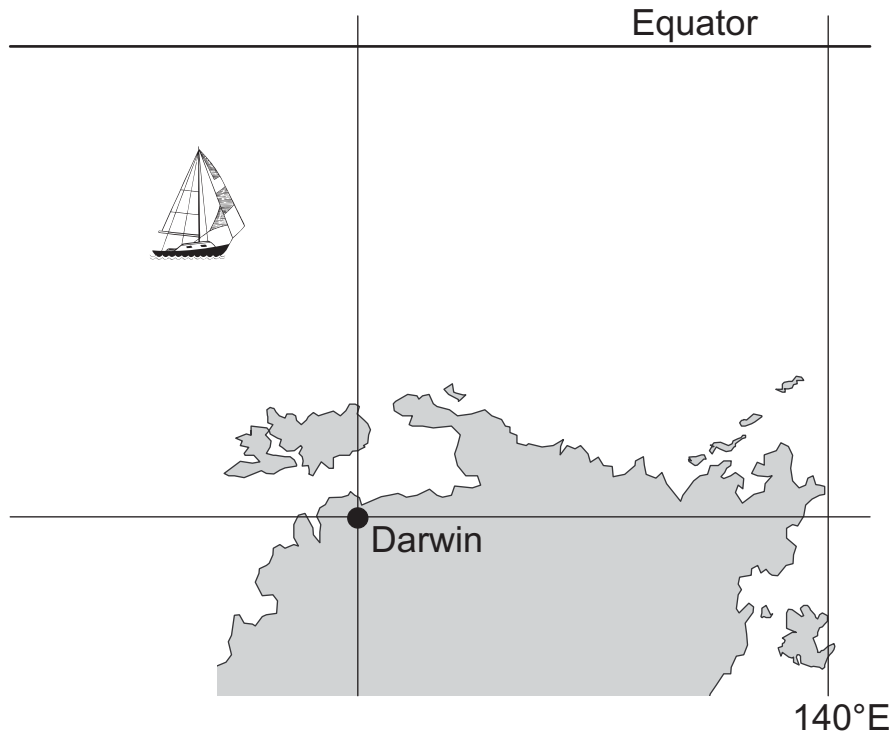
10

1

30

36

2



A Darwin based Navy patrol boat receives a message that a yacht is in distress.

Darwin's position is 12°S and 130°E.

Which one of these is closest to the yacht's position?

- 2° N, 124° W
- 4° S, 135° E
- 4° S, 126° E
- 12° S, 130° E

3 If you double Emily's age, subtract three and divide the result by five, the answer is five.

How old is Emily?

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4 $4x + 1 = y$

Which table is represented by this equation?

x	-3	-2	-1	0
y	13	9	4	1

x	-3	-2	-1	0
y	-11	-7	-3	1

x	13	9	4	1
y	-3	-2	-1	0

x	-3	-2	-1	0
y	-11	-9	-4	1

5

Flights Out: Perth to Auckland – Fri 11 Mar 11

From	To	Flight
05:45 Perth	13:00 Sydney	QF574
14:45 Sydney	19:50 Auckland	QF113

Duration: 9h 05m

This webpage shows the timetable for a flight from Perth to Auckland with a stop in Sydney.

The times shown on the timetable are the local times for arrivals and departures.

The total travelling time including the stopover is shown on the webpage.

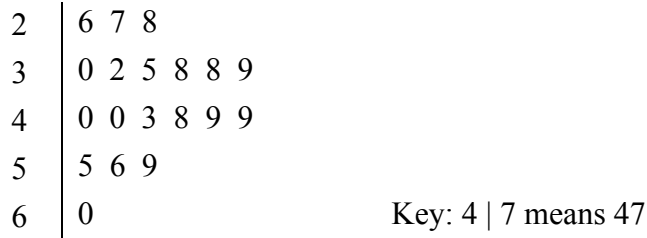
According to this timetable, what is the time difference between Perth and Auckland?.

hours

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- 6** A school zone has a speed limit of 40 km/hr from 3 pm to 4 pm.
A speed camera measured the speeds of some cars as they passed the school at 3:15pm.
The results are recorded in this stem and leaf graph.

Speeds of cars passing a school at 3:15 pm



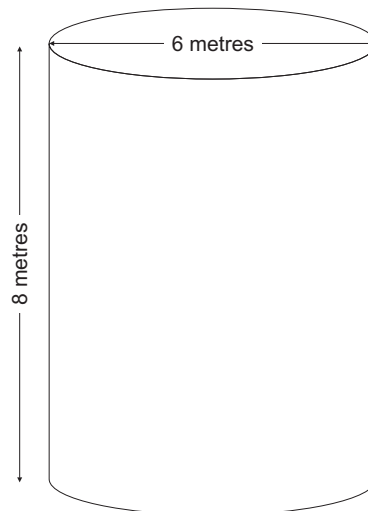
How many cars were exceeding the speed limit?

 cars

- 7** A childcare centre has a ratio of 5 babies to 1 teacher.
When a new law is introduced, they must change to a ratio of 4 babies to 1 teacher.
How many extra teachers will be needed by a childcare centre that cares for 60 babies?

- 2 3 12 15

- 8**
- Which of the following equations should be used to find the surface area of this cylinder?



- $\pi \times 6^2 \times 2 + 2 \times \pi \times 6 \times 8$
- $\pi \times 8^2 \times 2 + 2 \times \pi \times 8 \times 6$
- $\pi \times 3^2 \times 2 + 2 \times \pi \times 3 \times 8$
- $\pi \times 6 \times 2 + 2 \times \pi \times 6 \times 8$