

# Year 7 – Set Two

Name ..... Date .....

Answer these questions without using a calculator.

**1**

What percentage of one hour is fifteen minutes?

15%

20%

25%

30%

**2**

Dean is stacking bales of hay against a barn wall. He starts with a row of three.

Then he adds one to each end of the row and puts an extra row on top so Stack 2 contains 10 bales.

If he continues this process, how many bales will be in Dean's **fifth** stack?

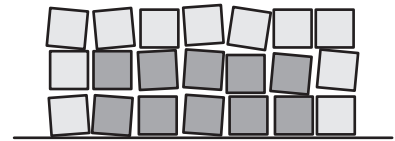
Stack 1



Stack 2



Stack 3



36

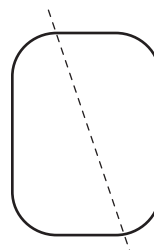
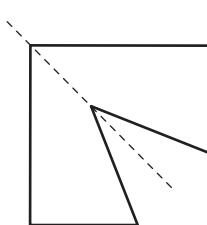
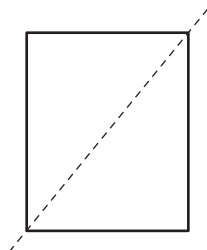
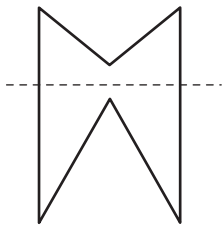
42

50

55

**3**

Which of these shapes is symmetrical about the dotted line?



4

Which of these numbers is the smallest?

0.12

0.012

0.021

0.1

5

What is the missing number?

$$30 + 4 \times 2 = 70 - \square$$

6

Paul takes one counter out of each jar without looking and adds their numbers together.

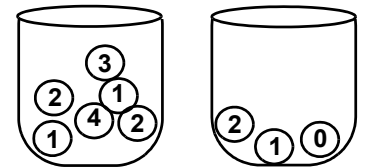
Which of these is **most** likely to be the sum of Paul's counters?

1

2

3

4



7

At a quarter to nine in the evening, what would the display on a digital clock show?

18:45

19:15

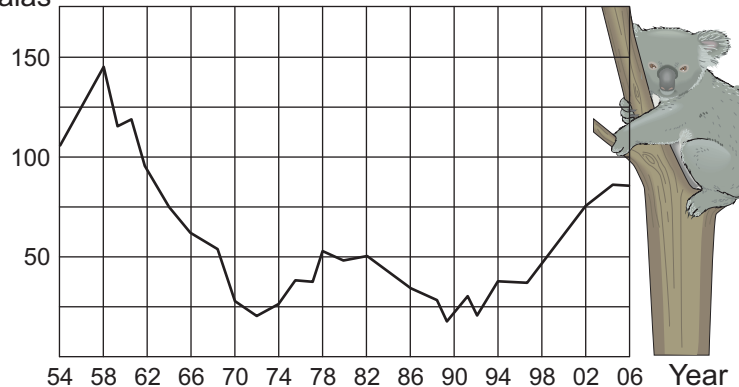
20:45

21:45

8

The number of koalas in a state forest has been counted every year. This graph shows how the number of koalas has changed since 1954.

Koalas



How many **years** did it take the population to recover to the same level as it was in 1966?