Q1. The numbers in this sequence increase by 30 each time.

<div align="center">20   50   80   110 ...</div>

The sequence continues in the same way.Which number in the sequence will be **closest to 300**?
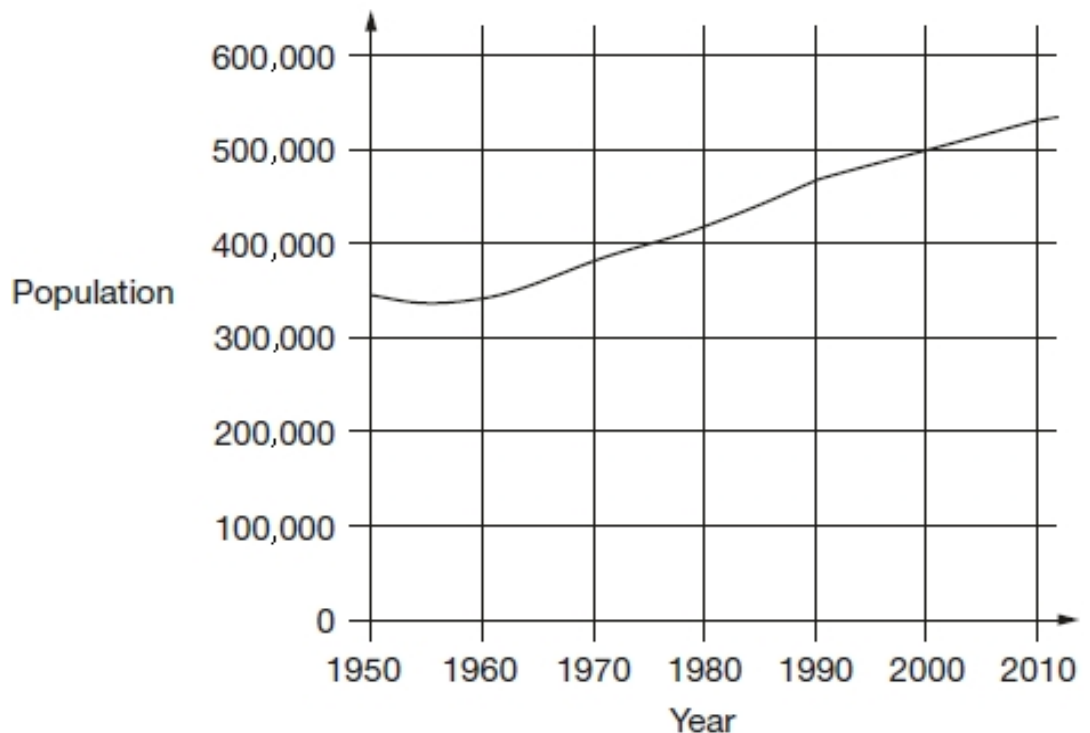
Show
your
method

2 marks

Q2. Liam has five coins.

Three of the coins add up to **30p**.   Three of the coins add up to **40p**.

All five coins add up to **£1**   What are the coins that Liam has?

| p | p | p | p | p |

1 mark

Q3. This chart shows the population of Cornwall from 1950 to 2010.

Population

Look at the chart.

600,000

500,000

400,000

300,000

200,000

100,000

0

1950   1960   1970   1980   1990   2000   2010

Year

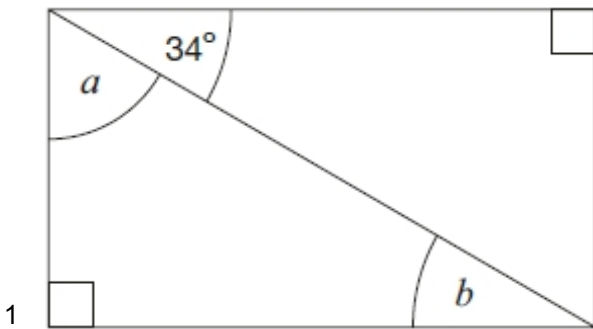In which year did the population first reach 400,000?

1 mark

How much did the population increase from 1950 to 2000?

1 mark

What was the population of Cornwall in 2010?

1 mark

Q4. Here is a rectangle.

34°

a

b

1

Not to scale

Calculate the size of angles a and $b.$

Do **not** measure the angles.

$a =$ [ ] °

mark

$b =$ [ ] °

1 mark

Q5. Calculate 55% of 640

1 mark

Q6. Write the missing fraction.

$$\frac{1}{3} \ + \ \frac{1}{4} \ + \ \boxed{} \ = \ 1$$

1 mark

Q7.
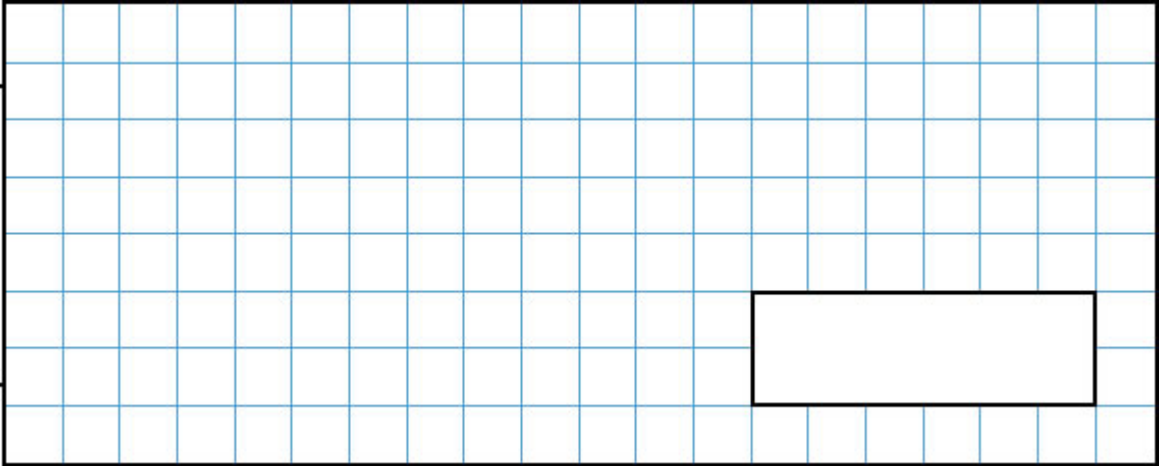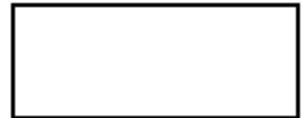
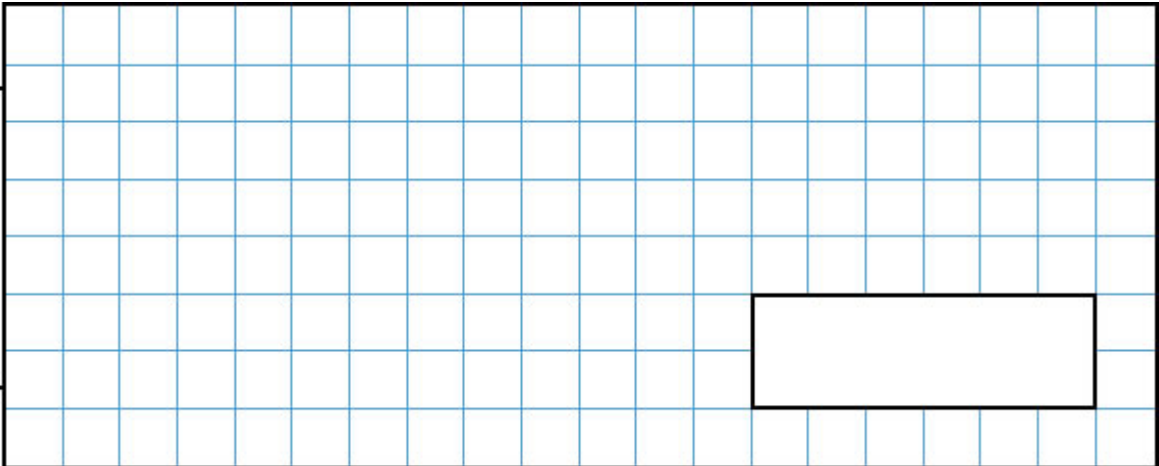$$785 \times 23$$

Show your method

2 marks

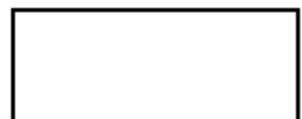**Q8.** $10.5 \div 7 =$

Q9. $43 \overline{)645}$

Show your method

2 marks

Q10. $\dfrac{2}{3} - \dfrac{2}{9} =$

1 mark

Mark schemes

Q1. Award **TWO** marks for the correct answer of 290

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg:

■   110   140   170   200   230   260   290   (320)
Not spotting closest number.

OR

■   110   140   170   190   220   250   280   (310)
One step size incorrect (170 to 190).

OR

■   300 + 20 = 320

     320 - 30 = wrong answer

Q2. 50p   20p   10p   10p   10p
Coins may be given in any order.

Q3.

(a)   1974 **OR** 1975 **OR** 1976

              1

(b)   A whole number answer in the range 130 000 to 180 000 **inclusive**.

              1

(c)   A whole number answer in the range 510 000 to 550 000 **exclusive**.
      Do not *accept 510 000* ***OR*** *550 000*

              1

Q4.

(a)   56   (b)   34
      If the answers to (a) and (b) are incorrect, award ***ONE*** *mark if their (a) plus their (b) = 90°, provided that (b) is* ***not*** *45°, 30° or 60°.*

              1

Q5. 352   ***Do not*** *accept 352%*

              [1]

Q6.

$$\frac{5}{12}$$

Q7.

Award **TWO** marks for the correct answer of 18,055

Q8.

1.5

[1]

Q9.

Award **TWO** marks for the correct answer of 15

Q10.

$\dfrac{4}{9}$ or equivalent

[1]