

**FOUNDATION TIER
MINI PRACTICE EXAM 7**



**CALCULATOR ALLOWED
20 MINUTES ALLOWED**

1.

Federica is making bracelets.

She needs 6 centimetres of string to make each bracelet.

She has 5.5 metres of string.

(a) What is the maximum number of bracelets Federica can make?

(2)

(b) How many centimetres of string will she have left over?

(1)

2.

Here are three expressions:

$$ab$$

$$3a + b$$

$$10b - 3a$$

Which expression has the largest value when $a = 3.5$ and $b = 2$?

(2)

3.

Greg and Freddie both cycled to school.

Greg lives 1,900 metres from the school.

Freddie lives 3 kilometres from the school.

Greg travelled at an average speed of 5 metres per second, and Freddie travelled at an average speed of 8 metres per second.

They both left their houses at the same time.

Who arrived at school first?

(4)

4.

Rearrange the formula below to make y the subject:

$$x = \frac{y - 1}{3}$$

(3)

5.

A rugby pitch has an area of $4,645 \text{ m}^2$.

A football pitch is 109 metres long and 44 metres wide.

How much larger is the area of the football pitch than the rugby pitch?

(3)

6.

Adrian went on holiday to Italy.

The exchange rate was $\text{£}1 = 1.20$ Euros when he left.

Before he went on holiday, he changed $\text{£}700$ into Euros.

(a) How many Euros did Adrian have at the start of his holiday?

(2)

Adrian had 368 Euros left at the end of his holiday.

When Adrian returned home, the exchange rate had changed to $\text{£}1 = 1.15$ Euros.

When he got home, he changed the remaining money into pounds.

(b) What was the difference, in pounds, between what he left with and what he returned with?

(3)