Friday 4's National 5 - no.4

Aaron saves 50 pence and 20 pence coins in his piggy bank.

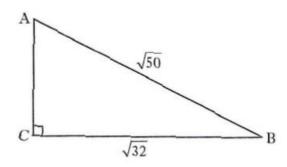
Let x be the number of 50 pence coins in his bank.

Let y be the number of 20 pence coins in his bank.



- (a) There are 60 coins in his bank.Write down an equation in x and y to illustrate this information.
- (b) The total value of the coins is £17.40.Write down another equation in x and y to illustrate this information.
- (c) Hence find **algebraically** the number of 50 pence coins Aaron has in his piggy bank.

A right angled triangle has dimensions as shown.



Calculate the length of AC, leaving your answer as a surd in its simplest form.

3

1

1

Factorise fully

$$5x^2 - 45$$
.

2

$$P = \frac{2(m-4)}{3}$$

Change the subject of the formula to m.

3