##  <br> EXAM PAPERS PRACTICE

# Quadratic Equations 

Question Paper

## Question 1

Solve the equation $\quad 3 x^{2}-11 x+4=0$.
Show all your working and give your answers correct to 2 decimal places.

## Question 2

Solve the equation $5 x^{2}-6 x-3=0$.
Show all your working and give your answers correct to 2 decimal places.

Solve the equation $3 x^{2}+4 x-5=0$.
Show all your working and give your answers correct to 2 decimal places.

$$
f(x)=x^{2}+4 x-6
$$

(a) $\mathrm{f}(x)$ can be written in the form $(x+m)^{2}+n$. Find the value of $m$ and the value of $n$.
(b) Use your answer to part (a) to find the positive solution to $x^{2}+4 x-6=0$.

## Question 5

Solve the equation.

$$
2 x^{2}+x-2=0
$$

Show your working and give your answers correct to 2 decimal places.

## Question 6

Use the quadratic equation formula to solve

$$
2 x^{2}+7 x-3=0
$$

Show all your working and give your answers correct to 2 decimal places.

## Question 7

Solve the equation $2 x^{2}+6 x-3=0$.
Show your working and give your answers correct to 2 decimal places.

Solve the equations

$$
\text { (a) } \frac{2 x}{3}-9=0
$$

(b) $x^{2}-3 x-4=0$.

Solve the equation

$$
x^{2}+4 x-22=0
$$

Give your answers correct to 2 decimal places.
Show all your working.

## Question 10

Solve the equation $5 x^{2}+10 x+2=0$.
You must show all your working and give your answers correct to 2 decimal places.

## Question 11

Solve the equation $\quad 2 x^{2}+3 x-3=0$.
Show all your working and give your answers correct to 2 decimal places.

## Question 12

Solve $(x-7)(x+4)=0$.

## Question 13

(a) Factorise $3 x^{2}+2 x-8$.
(b) Solve the equation $3 x^{2}+2 x-8=0$.

## Question 14

The solutions of the equation $x^{2}-6 x+d=0$ are both integers.
$d$ is a prime number.
Find $d$.

## Question 15

Solve the equation $2 x^{2}+3 x-6=0$.
Show all your working and give your answers correct to 2 decimal places.

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## Question 16

Solve the equation.

$$
x^{2}-8 x+6=0
$$

Show all your working and give your answers correct to 2 decimal places.

