Name: _____

# GCSE (1 – 9)

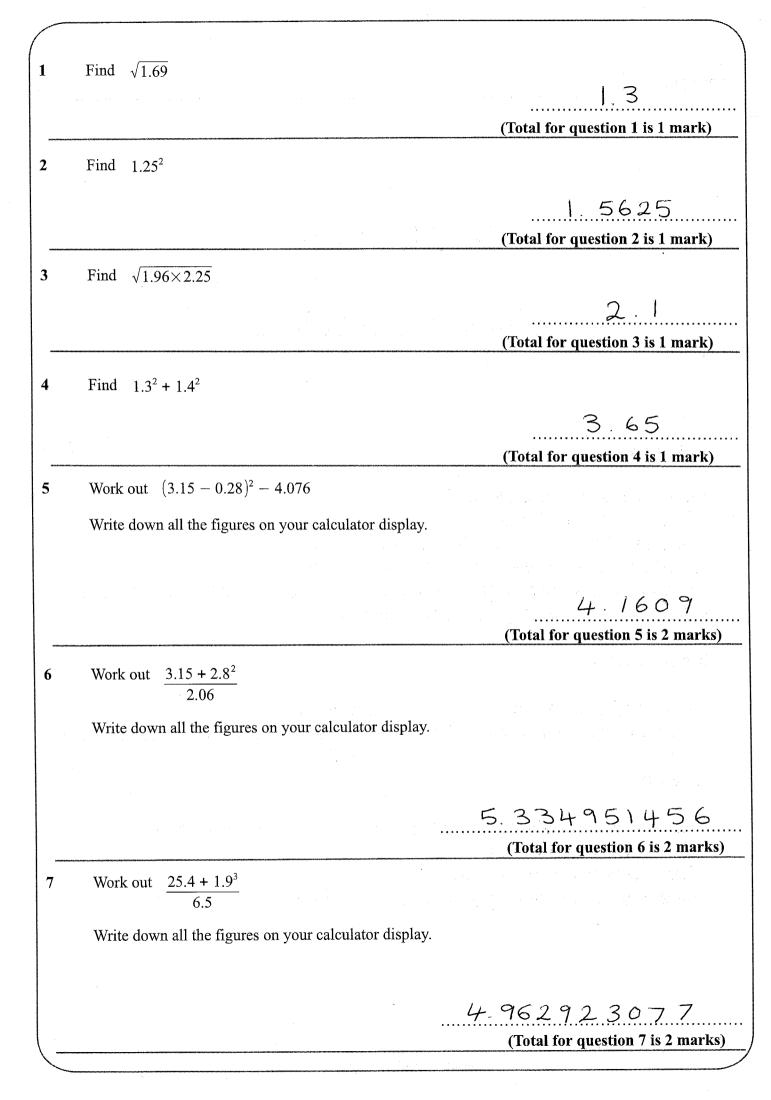# Using a Calculator

## Instructions

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
  – *there may be more space than you need.*
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out.**

## Information

- The marks for each question are shown in brackets
  – *use this as a guide as to how much time to spend on each question.*

## Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end

**1**  Find  $\sqrt{1.69}$

1.3

(Total for question 1 is 1 mark)

**2**  Find  $1.25^2$

1.5625

(Total for question 2 is 1 mark)

**3**  Find  $\sqrt{1.96 \times 2.25}$

2.1

(Total for question 3 is 1 mark)

**4**  Find  $1.3^2 + 1.4^2$

3.65

(Total for question 4 is 1 mark)

**5**  Work out  $(3.15 - 0.28)^2 - 4.076$

Write down all the figures on your calculator display.

4.1609

(Total for question 5 is 2 marks)

**6**  Work out  $\dfrac{3.15 + 2.8^2}{2.06}$

Write down all the figures on your calculator display.

5.334951456

(Total for question 6 is 2 marks)

**7**  Work out  $\dfrac{25.4 + 1.9^3}{6.5}$

Write down all the figures on your calculator display.

4.962923077

(Total for question 7 is 2 marks)

**8** Use your calculator to work out $\dfrac{\sqrt{12.36 - 5.12}}{2.97^2}$

(a) Write down all the figures on your calculator display.

0.305039713 6

(2)

(b) Write your answer to part (a) correct to 2 decimal places.

0.31

(1)

**(Total for question 8 is 3 marks)**

**9** Work out $\sqrt{\dfrac{25.1 - 3.87}{5.23 + 2.04}}$

Write down all the figures on your calculator display.

1.708865145

**(Total for question 9 is 2 marks)**

**10** (a) Find the value of $30.5^2 + 12.1^2$

1076.66

(1)

(b) Find the value of $\sqrt{5.13 + 10.28} - 0.97$

2.955557285

(2)

**(Total for question 10 is 3 marks)**

**11** Work out $\sqrt{12^2 + 15^2 - 54\cos(80)}$

Write down all the figures on your calculator display.

18.96372849

**(Total for question 11 is 2 marks)**

**12** Use your calculator to work out $\dfrac{\sin 25° + \cos 40°}{\cos 25° - \sin 40°}$

(a) Write down all the figures on your calculator display.

.........4.510708504..........

(2)

(b) Write your answer to part (a) correct to 2 decimal places.

..........4.51..........

(1)

**(Total for question 12 is 3 marks)**

**13** Use your calculator to work out $\sqrt{\dfrac{\tan 80° + 1}{\tan 80° - 1}}$

(a) Write down all the figures on your calculator display.

..........1.195051466..........

(2)

(b) Write your answer to part (a) correct to 3 significant figures.

..........1.20..........

(1)

**(Total for question 13 is 3 marks)**

**14** Use your calculator to work out $\dfrac{12.74 + \sqrt{9.5}}{6.04 \times 4.1}$

(a) Write down all the figures on your calculator display.

..........0.638919 6819..........

(2)

(b) Write your answer to part (a) correct to 2 significant figures.

..........0.64..........

(1)

**(Total for question 14 is 3 marks)**