Square numbers

1.   a) Work out 5^2

        b) Work out $\sqrt{36}$

        c) Work out 11^2

                                                                (3 marks)

2.   a) Work out $\sqrt{144}$

        b) Work out 9^2

        c) Work out $\sqrt{225}$

                                                                (3 marks)

3.   a) Work out $\sqrt{196}$

        b) Work out 3^2

        c) Work out $\sqrt{1}$

                                                                (3 marks)

Square numbers

4.   Here is a list of numbers

           3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36

       a) Write down the square numbers

       b) Write down the square root of 81

                                                    (3 marks)

5.   Here is a list of numbers

           4, 8, 12, 16, 20, 24, 28, 32, 36, 40
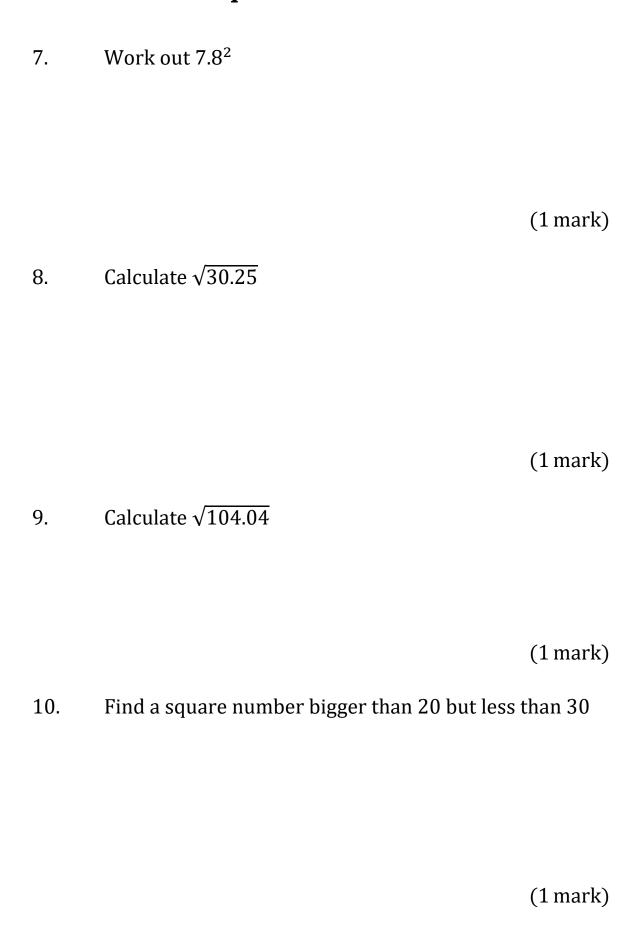
       a) Write down the square numbers

       b) Write down the square root of 64

                                                    (3 marks)

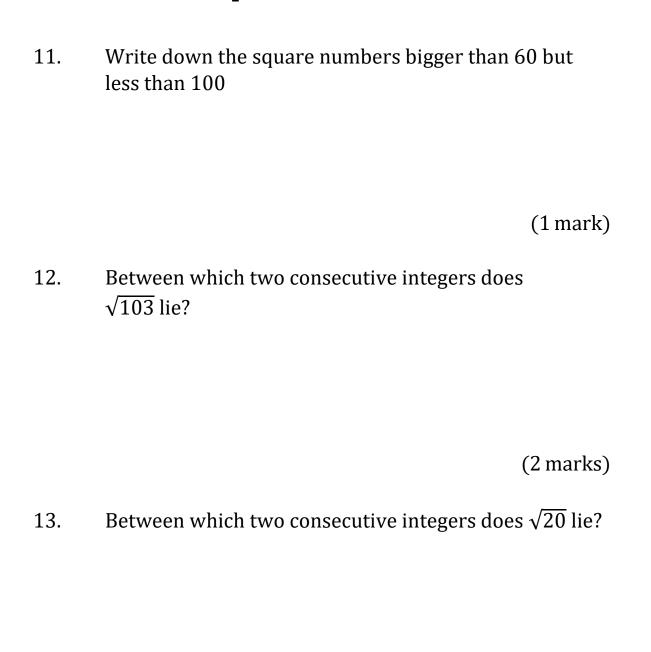6.   Calculate 3.5^2.

                                                    (1 mark)

Square numbers

7.   Work out 7.8^2

(1 mark)

8.   Calculate $\sqrt{30.25}$

(1 mark)

9.   Calculate $\sqrt{104.04}$

(1 mark)

10.   Find a square number bigger than 20 but less than 30

(1 mark)

Square numbers

11. Write down the square numbers bigger than 60 but less than 100

(1 mark)

12. Between which two consecutive integers does $\sqrt{103}$ lie?

(2 marks)

13. Between which two consecutive integers does $\sqrt{20}$ lie?

(2 marks)

14. Put these numbers in order from smallest to biggest.

$$3^2, \quad \sqrt{64}, \quad 7, \quad \sqrt{36}$$

(3 marks)

Square numbers

15. A square has an area of $169 \ cm^2$
    Find the perimeter of the square.

    (3 marks)

16. Find two square numbers that have a product of 64 and a sum of 20

    (3 marks)