Corbett mαths

Workout

Question 1:   Work out each of the following

(a) √9   (b) √25   (c) √100   (d) √4   (e) √36   (f) √64

(g) √16   (h) √81   (i) √144   (j) √121   (k) √1   (l) √0

Question 2:   Below is a list of numbers.

    0   1   4   7   8   9   11   15   20   25   29

From the list write down:

(a)   The square root of 81
(b)   The square root of 225
(c)   The square root of 400
(d)   The square root of 1

Question 3:   Work out each of the following
               You may use a calculator

(a) √324   (b) √1444   (c) √841   (d) √4225   (e) √21316   (f) √652864

(g) √29.16   (h) √53.29   (i) √0.16   (j) √216.09   (k) √123.21   (l) √13.1044

Question 4:   Between which two consecutive integers do each of the following lie between?
               e.g.   √53 lies between 7 and 8

(a) √20   (b) √97   (c) √6   (d) √41   (e) √130   (f) √250

Question 5:   Estimate each of the following.
               Give each estimate to 1 decimal place.

(a) √56   (b) √10   (c) √95   (d) √63   (e) √150   (f) √86

Question 6:   Using your calculator, work out the answers to Question 5.

Apply

Question 1: Harriet thinks of a number.
She squares it and then adds 11.
Harriet's answer is 36.
What was her original number?

Question 2: A square has an area of 225cm².
Work out the perimeter of the square.

Question 3: Place each of the digits in the correct position to make the correct calculation.

| 1 | 2 | 4 | 8 | 9 |

$\sqrt{\square\square\square} = \square\square$

Question 4: Can you spot any mistakes?

Write down the value of

(a) $\sqrt{16}$

8
....
(1)

(b) $\sqrt{100}$

50
....
(1)

Question 5: x is a positive integer.
Find the value of x.

$$\sqrt{3^2 + 4^2 + 12^2} = \sqrt{3^2 + 4^2} + \sqrt{x^2}$$

Question 6: In 1980 a man's age was the square root of the number of the year of his birth.

(a) When was he born?
(b) Did he have to join the forces in the First World War or the Second World War?