

Examples

Workout



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Question 1: Work out each of the following

- (a) $\sqrt{9}$ (b) $\sqrt{25}$ (c) $\sqrt{100}$ (d) $\sqrt{4}$ (e) $\sqrt{36}$ (f) $\sqrt{64}$
(g) $\sqrt{16}$ (h) $\sqrt{81}$ (i) $\sqrt{144}$ (j) $\sqrt{121}$ (k) $\sqrt{1}$ (l) $\sqrt{0}$

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) $\sqrt{324}$ (b) $\sqrt{1444}$ (c) $\sqrt{841}$ (d) $\sqrt{4225}$ (e) $\sqrt{21316}$ (f) $\sqrt{652864}$
(g) $\sqrt{29.16}$ (h) $\sqrt{53.29}$ (i) $\sqrt{0.16}$ (j) $\sqrt{216.09}$ (k) $\sqrt{123.21}$ (l) $\sqrt{13.1044}$

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

- (a) $\sqrt{20}$ (b) $\sqrt{97}$ (c) $\sqrt{6}$ (d) $\sqrt{41}$ (e) $\sqrt{130}$ (f) $\sqrt{250}$

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

- (a) $\sqrt{56}$ (b) $\sqrt{10}$ (c) $\sqrt{95}$ (d) $\sqrt{63}$ (e) $\sqrt{150}$ (f) $\sqrt{86}$

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

Square Root

Video 228 on www.corbettmaths.com

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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) $\sqrt{16}$

$$\begin{array}{r} 8 \\ \hline (1) \end{array}$$

(b) $\sqrt{100}$

$$\begin{array}{r} 50 \\ \hline (1) \end{array}$$

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

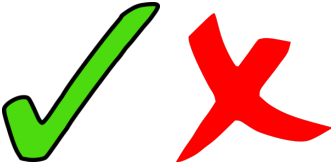
$$\sqrt{3^2 + 4^2 + 12^2} = \sqrt{3^2 + 4^2} + \sqrt{x^2}$$

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?

Answers



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