CLASS 8 MATHS

SQUARES AND SQUARE ROOTS

FINDING SQUARE ROOT THROUGH REPEATED SUBTRACTION EXERCISE

Q.1	Find the squa	re roots of 100	and 169 b	v the method	of repeated	subtraction
~:-	I III a circ bqaa	ii C I C C C C I I C C	and to b	,	or repeated	Dabtiacti

Q.2	Find the square roots	of the following	numbers by the	prime Factorisation l	Method
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(i) 729

(ii) 400

(iii) 1764

(iv) 4096

(v) 7744

(vi) 9604

(vii) 5929

(vii) 9216

(ix) 529

(x)8100

Q.3 For each of the following numbers, find the smallest whole number by which it should be multiplied so as to get a perfect square number. Also find the square root of the square number so obtained.

(i) 252

(ii) 180

(iii) 1008

(iv) 2028

(v) 1458

(vi) 768

Q.4 For each of the following numbers, find the smallest whole number by which it should be divided so as to get a perfect square. Also find the square root of the square number so obtained.

(i) 252

(ii) 2925

(iii) 396

(iv) 2645

(v) 2800

(vi) 1620

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Q.5 Find the greatest 5-digit number which is a perfect square.

ANSWER KEY

1. 10, 13

2. (i) 27

(ii) 20

(iii) 42

(iv) 64

(v) 88

(vi) 98

(vii) 77

(viii) 96

(ix) 23

(x) 90

3. (i) 7; 42

(ii) 5; 30

(iii) 7,84

(iv) 3; 78

(v) 2; 54

(vi)3; 48

4. (i) 7; 6

(ii) 13; 15

(iii) 11; 6

(iv) 5; 23

(v) 7; 20

(vi) 5; 18

5. 99856