Date:

Math 8: Section 1.5 Problems for Squares and Square roots:

The value of	$10^2 + 10 + 1$ is			
(A) 101	(B) 1035	(C) 1011	(D) 111	(E) 31
The value of	$9^{2} - \sqrt{9}$ is			
(A) 0	(B) 6	(C) 15	(D) 72	(E) 78
The value of	$(2^3)^2 - 4^3$ is			
(A) 0	(B) −8	(C) 4	(D) 10	(E) 12
The value of the expression $5^2 - 4^2 + 3^2$ is				
(A) 20	(B) 18	(C) 21	(D) 10	(E) 16
The value o	of $\sqrt{9+16}$ is			
(A) 5.2		(C) 5.7	(D) 25	(E) 5

How many e	ven whole number	ers lie between 3 ²	and 3^3 ?	
(A) 9	(B) 4	(C) 6	(D) 10	(E) 17

A square has a perimeter of 28 cm. The area of the square, in cm^2 , is **(A)** 196 **(B)** 784 **(C)** 64 **(D)** 49 **(E)** 56

Two squares, each with an area of 25 cm^2 , are placed side by side to form a rectangle. What is the perimeter of this rectangle?

(A) 30 cm (**B**) 25 cm (C) 50 cm **(D)** 20 cm (E) 15 cm

The perimeter	of a square is 36	cm. The area o	f the square, in c	m^2 , is
(A) 24	(B) 81	(C) 36	(D) 1296	(E) 324

A cube has a volume of 125 cm^3 . What is the area of one face of the cube?

(A) 20 cm^2 (B) 25 cm^2 (C) $41\frac{2}{3} \text{ cm}^2$ (D) 5 cm^2 (E) 75 cm^2

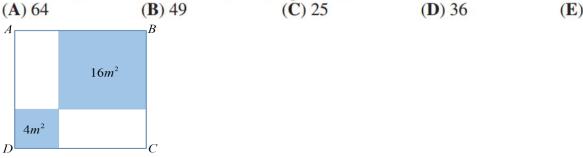
In the following equations, the letters a, b and c represent different numbers.

$$1^{3} = 1$$

 $a^{3} = 1 + 7$
 $3^{3} = 1 + 7 + b$
 $4^{3} = 1 + 7 + c$

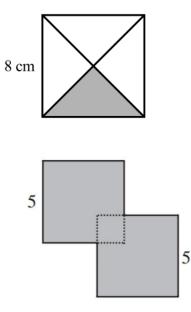
The numerical value of a+b+c is(A) 58(B) 110(C) 75(D) 77(E) 79

ABCD is a square that is made up of two identical rectangles and two squares of area 4 cm² and 16 cm². What is the area, in cm², of the square *ABCD*? (A) 64 (B) 49 (C) 25 (D) 36 (E) 20



The diagonals have been drawn in the square shown. The area of the shaded region of the square is

(A) 4 cm^2	(B) 8 cm ²	(C) 16 cm ²
(D) 56 cm ²	(E) 64 cm ²	



Two squares, each with side length 5 cm, overlap as shown. The shape of their overlap is a square, which has an area of 4 cm^2 . What is the perimeter, in centimetres, of the shaded figure?

(A) 24	(B) 32	(C) 40
(D) 42	(E) 50	